



Rapid Tech Skills Program



Graduation

28TH MAY, 2025



**KENYATTA UNIVERSITY
AMPHITHEATRE**

GRADUATION PROGRAM

DATE: 28th May 2025

VENUE: Amphitheatre Kenyatta University, Main Campus, Thika Road

PROGRAM

8:00 A.M **Arrival and Registration**

9: 00 A.M SKIES Team, Technical Committee

9:00 A.M **Welcome and Opening by MC**

9:05 A.M Master of Ceremony

9:05 A.M **Opening Prayer and National Anthem**

9:10 A.M Dr. Catherine Kagucia

9:10 A.M **Opening Remarks by the Host Vice**

9:25 A.M **Chancellor and Recognition of VCs/Principals**
Prof. Paul K. Wainaina

9:25 A.M **Remarks by KIEP Project Coordinator**

9:35 A.M Mr. Philip Maitha

9:35 A.M **Remarks by Student Alumni**

9:45 A.M

9:45 A.M **Reflections by Cohort 2 Students**

9:55 A.M

9:55 A.M **Keynote Address by Industry Expert**

10:15 A.M Col (Dr) James Kimuyu, PhD
Director, National Computer and
Cybercrimes Coordination Committee

10:15 A.M **Remarks and Keynote Address by World Bank**

10:35 A.M Mr. Sameer Goyal , KIEP TTL

10:35 A.M **Keynote Address by Chief Guest**

11:35 A.M Juma Mukhwana, PhD, CBS
Principal Secretary
State Department for Industry

11:35 A.M **Graduation Ceremony**

12:15 P.M Principal Investigators

12:15 P.M **Vote of Thanks**

12:20 P.M Mr. David Cheboryot,
SKIES Management Firm, Team Lead

12:20 P.M **Closing Prayer**

12:25 P.M Dr. Clifford Obiero

12:25 P.M **Photo Session & Networking**

12:45 P.M All Guests

12:45 P.M **Lunch**

About KIEP

The Kenya Industry and Entrepreneurship Project (KIEP) is a US\$50 million project being implemented by the Ministry of Investments, Trade and Industry, State Department for Industry, with support from the World Bank between 2018 - 2024. KIEP aims to increase innovation and productivity in select private-sector firms.

 Component 1: Strengthening the innovation and entrepreneurship ecosystem.

- Subcomponent 1a: Strengthening the ecosystem's support infrastructure.
- Subcomponent 1b: Industry Startup linkage program.
- Subcomponent 1c: International Acceleration Process.
- Subcomponent 1d: Industry-Academia Platform.

 Component 2: SME linkages and upgrading. This component aims to strengthen the productivity and internal capabilities for innovation of Kenyan SMEs, so that they can better compete for local and international market opportunities.

 Component 3: Outreach, M&E and Project Implementation Support.

About KIEP-SKIES

SKIES (Strengthening Kenya's Innovation Ecosystem) subcomponent 1a of KIEP aims to enhance the ecosystem infrastructure by building the capacity of intermediaries such as incubators, accelerators and technology boot camp providers. These intermediaries will be supported through funding of their individual improvement plans to enhance their operational strengths and business models thus ensuring their operational sustainability, expansion and improved quality of services provided to entrepreneurs as well as providing them with funds to successfully run two program cohorts.

SKIES' Beneficiaries are divided into two Tracks. Track 1 includes Incubators and Accelerators and Track 2 comprises of Technology Bootcamp providers and Rapid Tech Skills students. With the achievement of the above, it is expected that four significant outcomes will be realized:

-  Establishment of a Competitive Entrepreneurial Ecosystem
-  Creation of Long-term Sustainability for the Intermediaries
-  Establishment of Better, Improved Outcomes for Entrepreneurs
-  Increment of Technology Skills Uptake, Especially Among Women



Congratulations to the Second Cohort of the KIEP-SKIES Rapid Tech Skills Program.

It is with immense pride and optimism that I extend my warmest congratulations to each one of you. Your graduation today is not just a personal milestone, it is a national achievement and a symbol of Kenya's journey toward a future powered by innovation, skills, and resilience.

Through the KIEP-SKIES Program, you have been equipped with the practical expertise needed to lead in critical areas such as Data Science, AI, Cybersecurity, Animation, Software Engineering, and more. These are not just skills for today, they are tools for building a stronger, industrial, and globally competitive Kenya.

As you move into the next phase of your journey, whether as job creators, industry professionals, or innovators, remember that you are pioneers. You represent the promise of our Bottom-Up Economic Transformation Agenda, our Vision 2030, and the dreams of a generation determined to reimagine Kenya's place in the global economy.

The government, through the State Department for Industry, remains steadfast in supporting initiatives that harness the talent of our youth. We believe in your potential and trust that you will rise to the challenge of shaping the future of this nation.

Go out boldly. Lead with integrity. Innovate with purpose. Inspire with passion.

Nyinyi ni Mabingwa!
Hongera!

Dr. Juma Mukhwana, PhD, CBS
Principal Secretary, State Department for Industry



Warmest congratulations to the graduates of the KIEP-SKIES Rapid Tech Skills Program 2nd Cohort for their achievement! Congratulations also to the teachers, universities, the Ministry of Investment, Trade and Industry (MITI) and the SKIES team who all worked hard to make the 2nd cohort possible and the successful completion of this innovative initiative offering a unique curriculum. World Bank is delighted to have partnered with the Government of Kenya and specifically MITI to be able to support the development of tech skills which empower entrepreneurs and youth to expand their skills and explore new employment opportunities. It also contributes to enhancing the overall workforce skill set, offering businesses opportunities to innovate and improve overall productivity.

Skills development is at the heart of changes in education and labor markets across the world prompted by the global mega trends - automation, digitalization of products and services, and a shrinking labor force - which are changing the nature of work, and skills demands. The rapid pace of technological advancements and evolving labor markets can make technical and specialized skills quickly outdated. As a result, skills and workforce development must proactively adapt to meet the skill needs of the future business.

The development of skill set, particularly technical skills, can contribute to structural transformation and economic growth by enhancing employability as well as improving labor productivity which can help firms be more competitive domestically as well as internationally. Skills development through initiatives such as the Rapid Skills Program hold immense promise for empowering youth and contributing to enhancing the entrepreneurship and innovation ecosystem in Kenya and, thus, improving the prospects of leveraging technology for a sustainable economic transformation and fostering economic growth.

I wish all the graduates the best for this achievement which is an important tool for them to carve a path to a bright future for themselves and contribute to the advancement of private sector development and transformation of the country.

Sameer Goyal
KIEP Task Team Leader
The World Bank



On this significant day, we proudly celebrate a remarkable milestone — the graduation of 34 exceptional students from the second cohort of the KIESP-SKIES Rapid Tech Skills Program, who were placed at Mama Ngina University College.

We extend our gratitude to the Kenya Industry and Entrepreneurship Project (KIEP), the World Bank, the Ministry of Investments, Trade and Industry (MITI), the State Department for Industry (SDI), and the SKIES Management Firm. Your unwavering support has been instrumental in shaping the academic journeys and futures of our graduates. We sincerely thank you for your investment in these young minds and in the future of Mama Ngina University College.

The implementation of the Rapid Tech Skills Program at Mama Ngina University College has been both deliberate and strategic. We have worked diligently to create an environment that fosters innovation, entrepreneurship, and academic excellence. This program has enabled us to enrich our curriculum, empower our faculty, and equip our students with the skills needed to excel in a competitive global landscape.

This Rapid Tech Skills Program have enabled us to cultivate a new generation of leaders, entrepreneurs, and change-makers. Our collaboration stands as a powerful testament to what is possible when vision, opportunity, and commitment converge.

To our graduates: as you embark on the next chapter of your journey, remember that you carry more than just a certificate — you carry the hopes, dreams, and aspirations of a future shaped by excellence, resilience, and innovation.

Congratulations, and may the journey ahead be as bright as the dreams you hold.

Thank you.

Prof. Zipporah Ng'ang'a, PhD
Principal,
Mama Ngina University College.

Dear Esteemed Graduates, Faculty, Partners, and Distinguished Guests, It is with great joy that I extend my heartfelt congratulations to the graduating students of the 2nd Cohort of the KIEP-SKIES Rapid Tech Skills Programme. Today, we celebrate not only your academic achievements but also your commitment to gaining essential skills for success in an increasingly digital world.

This cohort has exemplified innovation and adaptability. All of you pursued specialized tracks in data science & artificial intelligence, software engineering, and cybersecurity—fields critical to shaping the future. Your mastery of these domains places you at the heart of technological progress and societal advancement.

Your completion of the Soft Skills and Entrepreneurship module has prepared you not only to solve technical problems but to lead, collaborate and create solutions with real-world impact. You graduate as well-rounded professionals—innovators with purpose and perspective.

The KIEP-SKIES Programme was designed to bridge the gap between academic knowledge and industry needs. Your success is a testament to the programme's effectiveness and the bright future ahead. As you embark on your professional journeys, I urge you to remain lifelong learners and ethical innovators who champion inclusive and sustainable progress.

We deeply appreciate the invaluable support of our sponsors—the Ministry of Investments, Trade and Industry (MITI), the World Bank, and E4Impact, the project's managing firm. Your partnership has been central to this success. To our faculty, mentors and the families who supported these graduates, thank you for your unwavering dedication and encouragement. Dear graduates, as you step into the world, I encourage you to proudly serve as ambassadors of the Open University of Kenya. Let your achievements, integrity, and innovation reflect the values and excellence that OUK stands for. Inspire others, open doors for those who follow and help us build a stronger, more connected learning community.

Congratulations once again. We look forward to witnessing the remarkable impact you will make in the tech landscape and beyond.

Prof. Elijah Omwenga
Vice Chancellor
Open University of Kenya





I wish to express my gratitude to the Ministry of Investments, Trade and Industry, and the State Department for Industry, under Dr. Juma Mukwana, for once again placing thirty-five (35) students at Kibabii University, for a comprehensive SKIES Rapid Tech Skills Training Programme aimed at enhancing their job readiness

The SKIES Rapid Tech Skills Job Readiness Programme at Kibabii University was implemented successfully. Reports from the Cohort I alumni are an indication of the positive impact of the programme. Training for Cohort II covered the following courses: Data Science and Artificial Intelligence, Cybersecurity, and Software Engineering. I am pleased to announce that thirty-one students completed the Programme and will be graduating on May 28th, 2025.

The National Monitoring Team visited our Institution on May 5, 2025, and expressed their satisfaction with the programme's progress at Kibabii University. This reflects the University's commitment to quality teaching and research. The Training will go a long way in enhancing the employability and job readiness for the Graduating Students and, as a result, contribute to the attainment of the Government of Kenya's Bottom-Up Economic Transformation Agenda (BETA) on the digital superhighway and creative economy.

Kibabii University is proud of the achievement of the Second Cohort of the SKIES Rapid Tech Skills Job Readiness Programme. I extend my congratulations and best wishes on their Graduation. The University is committed to fully implementing the SKIES Rapid Tech Skills Job Readiness Programme Collaborative Agreement.

Thank you.

Prof. Isaac Ipara Odeo,
Vice Chancellor of Kibabii University



Dear Graduates,

It is with immense pride that I stand before you today to celebrate your graduation from the KIEP-SKIES Rapid Tech Skills Programme. I sincerely congratulate each of you for the dedication and effort you have invested in this remarkable journey.

This event signifies a major milestone for all of you, our institution among the 6 other Universities, and our country's goal of becoming a leader in digital transformation. The KIEP-SKIES initiative exemplifies the positive results that can be achieved through strategic partnerships and targeted training, empowering young talent with the skills needed in the industry.

For this second cohort, the Technical University of Mombasa offered two highly relevant and cutting-edge tracks: Software Engineering and Data Science and Artificial Intelligence, in addition to soft skills and entrepreneurship. These areas represent the forefront of technology and are crucial in driving global innovation and economic change. By completing these courses, you are now skilled and competitive professionals, ready to make a significant impact on Kenya's and Africa's digital future.

We are particularly proud to announce that several of you have already secured job offers, even before today's ceremony. This demonstrates that the knowledge and skills you have acquired are not only relevant but highly sought after.

I would also like to express my heartfelt gratitude to our partners, especially the World Bank and the State Department of Industry under the Ministry of Investments, Trade, and Industry, for their invaluable support. This program illustrates the remarkable outcomes that can be achieved when academia, industry, and international partners collaborate with a unified vision.

To the graduating class, you are the future engineers, data scientists, and innovators who will guide Kenya and Africa into the next phase of technological progress. Make wise use of your knowledge, stay curious, and continue to embrace learning.

Congratulations once more, and I wish you all great success as you begin this exciting new chapter in your lives.

Prof. Laila Abubakar
Vice Chancellor



Distinguished guests, ladies and gentlemen, It is a great honor and privilege to be here today as we mark the graduation of Cohort 2 of the SKIES Rapid Tech Skills Programme—a flagship initiative of the Kenya Industry and Entrepreneurship Project (KIEP), the Ministry of Investments, Trade and Industry with the generous support of the World Bank.

Today, we celebrate not just the end of a training programme but the beginning of bold, promising journeys for our graduates—young innovators and creators who now step forward equipped with transformative skills, minds sharpened by real-world challenges, and a passion for shaping Kenya's digital future. At Dedan Kimathi University of Technology, we were proud to deliver two unique tracks in this cohort: Data Science and Artificial Intelligence, and Animation and Visual Effects. These fields—each in its own right—represent the frontiers of technological innovation and creative expression. They are redefining industries, reimagining education, agriculture, finance, and entertainment, and reshaping how we experience the world.

To our Data Science and AI graduates: You have engaged with the future. From developing intelligent systems to solving complex data-driven problems, your learning journey has prepared you to lead in a digital economy driven by insights, automation, and intelligent decision-making. To our Animation and Visual Effects graduates: You are the storytellers of tomorrow. In a world where visual narratives influence culture, commerce, and communication, your creative and technical expertise has the power to inspire, educate, and entertain across borders. Across both classes, you have embraced rigorous training, collaborated on real-world projects, and developed the resilience and confidence needed to succeed in highly competitive fields. You are proof that when learners are given the right tools, support, and purpose, they will thrive.

Let me also take this opportunity to express our deepest gratitude to the Ministry of Investments, Trade and Industry, the World Bank, and the SKIES Management Firm—Spineberg and E4Impact. Your vision, leadership, and partnership have made it possible for universities like DeKUT to play a central role in building Kenya's future tech talent pipeline.

To our fellow Vice Chancellors and academic colleagues from the other six institutions, your collaboration, commitment, and shared purpose have made this program truly national in character and international in standard.

To the graduates, I say this: You are not just completing a program—you are entering a landscape of opportunity. The tech and creative economies in Kenya and globally are growing rapidly. Innovation, integrity, and adaptability will be your greatest assets. Continue to learn. Continue to collaborate. And always ground your work in values that uplift communities and solve real challenges.

DeKUT remains committed to championing applied innovation, building sustainable tech ecosystems, and partnering with industry and government to nurture talent like yours. You will always be part of our journey and our story.

In closing, let me once again congratulate you, our graduates. You are the architects of Kenya's digital future. Go forth with purpose, skill, and courage—and know that we are proud of you, and hopeful because of you.

Thank you, and congratulations.

Prof. Eng. Peter N. Muchiri

Vice Chancellor

Dedan Kimathi University of Technology



It is indeed with immense pride and joy that I join you today to celebrate a significant milestone in the journey of innovation, empowerment and youth transformation through technology.

Jomo Kenyatta University of Agriculture and Technology (JKUAT) is honoured to have been selected by the Ministry of Investment, Trade and Industry (MITI) to participate in this Rapid Tech Skills programme for the second cohort under the SKIES initiative. This programme aligns seamlessly with JKUAT's mission and vision of being a university of global excellence in Training, Research, Innovation and Entrepreneurship for Sustainable Development.

A total of thirty-eight (38) students were enrolled in this transformative journey. Today, thirty four (32) of them are graduating, having completed intensive training in Data Science, Artificial intelligence, cyber security, mobile and web application development, entrepreneurship and hands-on project implementation.

What truly distinguishes this programme is not just the skills imparted, but the real-world solutions these young innovators have created. I am especially proud and elated to highlight seven remarkable student-led projects that emerged from this cohort:

- Mama Guardian – A platform that enhances maternal health tracking and support through community-based digital solutions.
- FarmEye – A smart agriculture monitoring and advisory system designed to help farmers optimize productivity using data-driven insights.
- BizMatchKE – A business matchmaking solution enabling young entrepreneurs to find and connect with mentors, service providers, and investors.
- EduRoutes – A digital platform streamlining access to learning resources, mentorship and academic support for high school and university students.
- DDOS Simulation Kit – A web app that simulates DDOS attacks for testing and analysis in a controlled environment.
- Agriscan – An AI tool that analyzes tomato leaf images to detect diseases and recommend solutions.
- Co Cyber Law – AI chatbot that simplifies Kenya's cyber law to promote digital rights, safety, and legal awareness.

These innovations were showcased during the inter-university project exhibition, where several of our projects received high praise from industry experts and were earmarked for potential scale-up.

To our graduating students – today marks not just a culmination, but a new beginning. I challenge you to leverage the skills, values and networks you have gained and to build inclusive, tech-driven solutions that will positively impact our communities and the society at large. The future belongs to the bold, and you have demonstrated your readiness to make your mark on the global stage.

As JKUAT, we reaffirm our unwavering commitment to nurturing talent and innovation in areas such as artificial intelligence, cybersecurity and digital entrepreneurship. We are keen to strengthen this partnership with the Ministry of Investment, Trade and Industry and look forward to welcoming the third cohort under the SKIES training programme.

In conclusion, I extend my heartfelt gratitude to the Ministry of Investment, Trade and Industry for their trust and support. Together, we are not just training students' - We are shaping the future of Kenya's digital economy.

Congratulations once again to all our graduates.

Prof. Victoria Wambui Ngumi, PhD, EBS
Vice Chancellor, JKUAT.



Today, we gather not merely to award certificates of participation, but to celebrate a profound transformation. Each of you stepped into this program with hope, courage, and curiosity. Over these past twelve weeks, through rigorous days of data, code, encryption, and innovation, you have emerged not only more skilled but more prepared to lead, to question, and to build.

At Kenya University, we are not simply in the business of imparting knowledge. We are in the business of igniting potential. This is the essence of the SKIES program, an extraordinary confluence of government vision, global partnership, and academic leadership. Under the broader banner of the Kenya Industry and Entrepreneurship Project (KIEP), and with generous support from the World Bank, SKIES has dared to ask: What if every young mind in this country had the tools to shape the digital age, rather than merely live in it? You, our graduates, are the answer to that question.

You have wrestled with neural networks and adversarial models; you have dissected vulnerabilities in code and engineered resilient software architectures; you have applied yourselves not to abstraction alone, but to the real-world challenges of health, finance, education, and governance.

You have worked in teams. You have failed and risen. You have reimagined possibility. This is not a modest achievement. It is a declaration of intent. And what does the future now ask of you? It asks for vigilance in a world where data is weaponized and privacy is endangered. It asks for imagination in a world where technology evolves faster than regulation. And above all, it asks for leadership, not of title, but of courage, empathy, and purpose.

We live in an age where the boundaries of geography are fading, but where the divides of access and opportunity remain. Your task, dear graduates, is not only to thrive but to ensure that others can thrive with you. Build inclusive platforms. Design systems that protect the vulnerable. Use your skills not only to automate processes, but to elevate lives.

As Vice Chancellor of Kenya University, I am deeply proud that our institution has been chosen to steward this vision. But I am even more inspired by the idea that among you sit future CEOs, lead cybersecurity analysts, founders of groundbreaking startups, and voices who will shape policy and technology far beyond our borders. May this graduation not be a closing chapter but an opening sentence.

In the immortal words of the poet Seamus Heaney:
"Hope is not optimism, which expects things to turn out well,
but something rooted in the conviction that there is good worth working for."
Go forth. Carry that conviction. Carry Kenya. Carry Africa. Carry the world forward.

Congratulations once again. Thank you!

Prof Paul Wainaina
Vice Chancellor



Today we gather to celebrate a milestone—the graduation of the 2nd Cohort of the KIEP-SKIES Rapid Tech Skills Programme. As the Principal Investigator of this transformative initiative at OUK, I am both proud and inspired by the dedication, resilience, and intellectual drive each of you has demonstrated.

Over the past three months, you've tackled demanding technical tracks—Data Science & AI, Software Engineering, and Cybersecurity—each essential for navigating and solving the complex challenges of our digital age.

Your progress reflects not only personal achievement but also the programme's broader vision: to nurture talent capable of driving innovation in Kenya and beyond.

Your engagement with the Soft Skills and Entrepreneurship modules has been vital. In today's interconnected world, success depends not only on technical ability but also on the power to lead, collaborate, and communicate effectively. These competencies elevate you from being domain experts to becoming versatile, purpose-driven change makers.

To the 2nd Cohort: You are trailblazers. Building upon the foundation laid by your predecessors, you've embraced the evolving curriculum, contributed to its growth, and shown what focused ambition can accomplish. The projects you've developed, the cybersecurity challenges you've solved, and the ventures you've envisioned speak volumes about your readiness to make an impact.

My deepest gratitude goes to our faculty, industry partners, and dedicated staff. Your unwavering support and practical insight have been crucial in turning this programme into a Launchpad for real-world success.

As you move forward, remember that technology is never neutral—it reflects the intentions of its creators. Use your knowledge not only to innovate, but to lead with responsibility, advocate for digital inclusivity, and inspire those around you. The KIEP-SKIES and the Open University community stands behind you, and we look forward to the positive change you will spark.

Congratulations, Cohort 2. Carry this momentum forward with courage, integrity, and the conviction that your work truly matters.

Prof. Christopher Chepken
Principal Investigator, KIEP-SKIES Rapid Tech Skills Programme
Open University of Kenya



It is with immense pride and joy that we celebrate the successful completion of the Rapid Tech Skills Program Cohort II at Mama Ngina University College.

The journey we embarked on has been nothing short of transformational. MNUC was allocated 35 scholarship students. I am pleased to announce that 34 of these students have been successfully sustained through to graduation — a remarkable achievement that speaks to the commitment of both the learners and the institution.

Through this program, our students have been equipped with 21st-century skills that meet the dynamic demands of today's technology-driven world. Thanks to our modern learning facilities, experienced faculty, and industry-aligned curriculum, we are confident that our graduates possess the competitive edge required to excel in the fields of Cybersecurity, Data Science, and Artificial Intelligence.

Today, we celebrate more than just academic achievement. We celebrate the emergence of a new generation of tech professionals — agile, innovative, ethical, and ready to shape the digital future.

At Mama Ngina University College, our mission has always been clear: to shape the future by nurturing world-class talent.

This mission aligns perfectly with the objectives of the KIEP-SKIES project, and together, we have proven that with vision, support, and determination, we can empower young people to drive sustainable economic growth and technological advancement.

To our graduates: as you step into the professional world, remember that you carry the knowledge, skills, and spirit of excellence that have been instilled in you here at MNUC. We are confident that you will make significant contributions to the Cybersecurity and Data Science sectors, not only in Kenya but across the globe.

Congratulations to you all. Go forth and shape the future.

Dr. Elijah Maseno, PhD
Principal Investigator & Mama Ngina University College.



I am delighted to join my colleagues to celebrate the success of second cohort of the KIEP- SKIES Rapid Tech Skills graduates on this auspicious occasion of their graduation. It is humbling for us to be part of the great team of reputable universities implementing the highly coveted job readiness-training programme for young, passionate, and talented Kenyans.

On behalf of the implementation team at Kibabii University, I convey our heartfelt appreciation to the World Bank for the grant, the Ministry of Investments, Trade and Industry for the administration of the grant, the SKIES Management Firm for the able coordination of the grant activities and the Kibabii University Management for the goodwill and support of the curriculum implementation.

The reviewed curriculum is learner-centred, flexible with clear objectives, and the recruitment process was open, democratic, and inclusive. Luckily, the majority of the second cohort students were Kibabii University alumni. This has been a source of great motivation and inspiration to the current undergraduate students who also believe that they stand a chance to be recruited into the programme in the future after their graduation. As the university faculty, we will ensure that this training continues.

Thirty-five (35) students were admitted in the three areas of specialization, namely: Data Science and Artificial Intelligence; Cyber Security and Software Engineering. The university has a niche in the computing and informatics discipline. The students in the three strands were very committed to class work and equally disciplined. They engaged the lecturers in class, interacted with industry players, developed project proposals, prototypes and undertook additional internationally recognized IBM certification to strengthen the Rapid Tech Skills training.

I therefore, once more, congratulate our graduands for their dedication, hard work and self-discipline that enabled them to get this far. In the same breadth, I thank the Lecturers for their exemplary commitment to their work. Finally, special thoughts go to the project implementation committee for their steadfastness and teamwork throughout the project duration.

Prof Stanley Ngome Mutsotso
Principal Investigator
Kibabii University



It is both a privilege and a moment of profound pride to stand before you today, not merely as a Principal Investigator, but as a witness to the remarkable journey of vision, partnership, and transformation that the SKIES initiative has enabled here at Kenyatta University. When we set out on this path to win the SKIES grant under the Kenya Industry and Entrepreneurship Project, our aspiration was clear: to unlock the untapped genius within our young people and equip them with the tools to build the digital economy of tomorrow.

Today, that aspiration stands fulfilled not as an idea, but as a living reality. You, our graduands, are the embodiment of that promise. Over the past 12 weeks, we have seen brilliance in motion, students exploring the frontiers of artificial intelligence, engineering resilient systems, safeguarding cyberspace, designing seamless user experiences, and more. But this program was not just about technical excellence, it was about courage, discipline, collaboration, and the capacity to innovate under pressure.

To our partners at the Ministry, the World Bank, E4Impact, and Spineberg: your trust, your resources, and your belief in Kenyan potential made this possible. You have not merely funded a training program you have invested in national resilience, in continental leadership, and in generational hope.

To my fellow academic colleagues, trainers, and coordinators: thank you for your relentless work and your mentorship, your long evenings, your intellectual generosity. You turned this vision into a living ecosystem.

To the leadership of Kenyatta University, especially our Vice Chancellor, thank you for backing this endeavor with institutional integrity, strategy, and scale.

And to our graduands, what can I say that does justice to your achievement? You arrived as learners. You leave as innovators. You entered with questions. You depart with the power to build answers. You are no longer just students of technology.

You are stewards of the digital destiny of this nation. But let me leave you with one final thought. In every era, there emerges a generation tasked with more than survival. A generation called to lead, to shape, and to uplift. This is your generation. This is your moment!

Use your skills not just to earn a living but to change lives. Bring dignity to data. Bring security to systems. Bring equity to innovation. On behalf of the entire SKIES coordination team, I congratulate you. I believe in you, and I look forward to seeing your fingerprints on the future of Kenya, Africa, and the world.

Congratulations once again.
Thank you.





It is a great honour to congratulate Cohort 2 graduates of the SKIES Rapid Tech Skills Programme. At Dedan Kimathi University of Technology, we take immense pride in having hosted two impactful tracks—Data Science & Artificial Intelligence, and Animation & Visual Effects. These graduates have demonstrated creativity, resilience, and technical excellence in tackling real-world challenges and expressing powerful visual narratives.

To our students: your dedication, curiosity, and innovation have exceeded expectations. You leave with not just skills, but the potential to lead Kenya's digital transformation.

To our partners and fellow institutions: thank you for the collaboration that continues to shape a future-ready workforce.
To the faculty and staff at DeKUT: your tireless support made this achievement possible.

This graduation marks a beginning. Continue learning, creating, and solving. Kenya is counting on your brilliance.

Congratulations to you all!

George Musumba, PhD
Principal Investigator – Rapid Tech Skills Programme
Dedan Kimathi University of Technology



Huge congratulations to all the SKIES Rapid Tech Skills Cohort 2 Graduands.

It has been such a great honour and privilege to be part of this second cohort of the SKIES Rapid Tech Skills programme. The journey has been epic, from the onboarding to discussions on curriculum development, to reporting and orientation, to actual course delivery, culminating in this auspicious celebration.

I have personally learnt a lot and grown in all spheres. I have made great friendships among the other principal investigators, the SKIES management firm and my dearest students. Other than the Tech Skills, which were the main goal of the project, I have experienced humanness, especially from the TUM SKIES family.

A big thank you to the World Bank, the Ministry of Investments, Trade and Industry, the State Department of Industry, SKIES Management Firm and all the Team members from the participating universities. Let us continue to innovate and grow together.

I wish all of us the very best in the next chapters and pages of our lives.
Baraka Tele.

Mathew Egessa, PhD.
Principal Investigator
Technical University of Mombasa

Principal Investigator- Message JKUAT



Dear Graduands

I am exceedingly delighted to join you today in celebrating an important milestone in your career path.

On behalf of the Jomo Kenyatta University of Agriculture and Technology (JKUAT)'s Department of Computing, JHUB Centre and the entire university fraternity. I wish to congratulate you individually and collectively for successfully completing the Rapid Tech Skills Training Program. I wish to commend the graduating class for your resilience, tenacity and dedication to hard work demonstrated throughout the 3-month programme.

The skills you have learnt in cyber security, data science and Artificial Intelligence if put in practice, I have no doubt in my mind they shall leapfrog you to a new level in the IT industry. Espouse integrity, ethics and uphold high moral standards. As you move forward, carry with you the spirit of JKUAT as a veritable force and centre of global excellence in training, research, innovation and entrepreneurship.

Congratulations!

Dr. Clifford Obiero, Ph.D.,
PI SKIES JKUAT

Kibabii University Student Beneficiaries



Ann Nanjala Sltati-
Data Science & AI

FAKE NEWS DETECTION SYSTEM

This project develops an AI-powered fake news detection system using NLP to classify news articles as real or fake, achieving over 90% accuracy. BERT outperforms traditional machine learning models, although it requires more computational resources. Future improvements include support for multilingual content and integration with browser extensions for real-time detection.



Annmarie Wesonga Wangatia-
Cyber Security

CYBERSECURITY IN FORENSIC BIOCHEMISTRY: PROTECTING DATA AND JUSTICE

This project explores cybersecurity threats in forensic biochemistry labs, focusing on protecting sensitive data like DNA and toxicology reports. It assesses vulnerabilities, staff awareness, and proposes a tailored cybersecurity framework to safeguard digital evidence, prevent breaches, and support justice in Kenya's forensic lab environments.



Beckon Wechuli Wafula-
Cyber Security

INTELLIGENT DETECTION OF DENIAL-OF-SERVICE ATTACKS VIA NETWORK TRAFFIC ANALYSIS

This project develops a system to detect Denial-of-Service (DoS) attacks by analyzing network traffic patterns, including packet size and volume. It identifies anomalies in real-time, enabling swift mitigation. Unlike traditional methods, this intelligent system adapts to evolving threats and can integrate into broader cybersecurity frameworks for enhanced network protection.



Belvin Barasa Wanami -
Data Science & AI

MECHANICAL ENGINEERING DESIGN CHATBOT

This chatbot provides valuable assistance to Professional Engineers and Engineering students by offering step-by-step guidance on learning engineering drawing. It helps users understand how to design various features, offering clear instructions and explanations for each process. The chatbot acts as a comprehensive learning tool for mastering essential engineering design skills.



Brenda Chemutai-
Data Science & AI

CYBERSECURITY IN FORENSIC BIOCHEMISTRY: PROTECTING DATA AND JUSTICE

This project leverages AI to enhance soil health monitoring and management. By combining deep learning, remote sensing, and weather forecasting, it provides farmers with predictive, site-specific insights. The solution offers real-time recommendations for improving soil fertility, optimizing crop yields, and promoting climate-resilient, sustainable agricultural practices amid climate change challenges.



Celine Wafula -
Cyber Security

CYBERSECURITY AWARENESS IN HUMAN RESOURCE MANAGEMENT: STRATEGIES, CHALLENGES AND IMPACT

This project examines cybersecurity awareness within HR departments, focusing on strategies for implementation, challenges, and their impact on organizational security. It aims to enhance resilience against data breaches by promoting a culture of security and safeguarding sensitive personal and organizational data managed by HR professionals.

Kibabii University Student Beneficiaries



Choge Cheruiyot Vincent-
Data Science & AI

AI-POWERED EARTHQUAKE PREDICTION SAND MAPPING SYSTEM

This project aims to develop an Earthquake Prediction System using machine learning to analyze seismic data and predict earthquake likelihood and magnitude. The system provides real-time risk assessment, displays interactive maps, and improves public awareness, enhancing disaster preparedness and response planning for individuals, communities, and decision-makers.



Collins Katenya-
Software Engineering

CROP MARKETPLACE APP — EMPOWERING FARMERS, ENSURING FOOD SECURITY

The Crop Marketplace App connects Kenyan smallholder farmers directly to buyers, reducing post-harvest losses, increasing incomes, and improving food security. It supports SDGs by promoting fair trade, sustainable farming, and climate-smart techniques. Key features include secure payments, direct communication, delivery coordination, and educational content for enhanced market access and resilience.



Davin Nyanchama Mochere-
Data Science & AI

FORECASTING GOOGLE STOCK PRICES USING ADVANCED DEEP LEARNING TECHNIQUES

This project aims to predict Google's stock closing price using deep learning models like LSTM and Transformers. Leveraging historical price and volume data from 2016–2021, it addresses the challenges of market volatility and non-linearity. The goal is to outperform traditional models and deliver accurate, actionable forecasts across varying market conditions.



Edilita Kalewa Mugo-
Data Science & AI

AI-ASSISTED DECISION SUPPORT FOR DIFFERENTIATING COVID 19, PNEUMONIA AND TUBERCULOSIS

This project uses machine learning to detect lung diseases—Pneumonia, Tuberculosis, and Covid-19—from chest X-ray images. It explores image classification using models like RandomForest, CNN, ResNet50V2, and ResNet34. The goal is to improve diagnosis speed, reduce human error, and support timely, accurate detection of life-threatening respiratory conditions.



Edmond Abuya-
Data Science & AI

CBET ACADEMIC-ASSESSMENT MANAGEMENT SYSTEM AND ONLINE STUDENT MANAGEMENT SYSTEM

These academic and student management systems help training institutions in Kenya improve how they handle student records, exams, and grading. They reduce paperwork, speed up processes like student registration and assessment, support better decision-making, and make it easier for staff and students to access and manage important academic information.



Elvis Kimutai -
Cyber Security

SAFE BROWSE GUARDIAN ; AI-POWERED APPLICATION FOR DETECTING AND BLOCKING PORNOGRAPHIC CONTENT ACROSS BROWSERS

SafeBrowse Guardian is an AI-powered app that blocks explicit content online, protecting users—especially children. Using advanced text and image detection, it ensures safer browsing. Developed under a data science course, the project focuses on ethical AI, privacy, and providing user-friendly, reliable protection for safer digital experiences.

Kibabii University Student Beneficiaries



Jackson Gitahi Ndiritu-
Software Engineering

EVENTFLOW ERP

EventFlow ERP is a comprehensive event management system that connects event planners, vendors, and attendees. It allows planners to manage events, vendors to showcase services, and attendees to register. Features include role-based registration, budget tracking, and attendee management, streamlining organization and enhancing collaboration for all users.



John Wataka-
Data Science & AI

TITANIC PROJECT

This project uses real Titanic passenger data to explore survival factors from the 1912 shipwreck. Through predictive analytics and machine learning, it identifies key patterns—like age, class, and gender—that influenced survival. The project transforms a historical tragedy into a practical data science exercise in classification and pattern discovery.



Joseph Ikwang Adungosi-
Data Science & AI

AI-DRIVEN PERSONAL HEALTH RISK PROFILING SYSTEM FOR COMMUNITY HEALTH WORKERS

The AI-Driven Personal Health Risk Profiling System helps community health workers assess health risks in real time. Using machine learning, it analyzes indicators like blood pressure, BMI, lifestyle, and genetics to predict risks for diabetes and cardiovascular diseases, enabling timely, personalized interventions and improved community health outcomes.



Kipchumba Mike Chirchir-
Cyber Security

LOCAL ACCOUNT PASSWORD CRACKING

This project explores local account password cracking by extracting and analyzing password hashes from system files. Using tools like Hashcat and John the Ripper, it applies brute-force, dictionary, and hybrid attacks to assess credential strength—helpful for security audits and understanding system vulnerabilities in non-domain environments.



Lamech Wafula Walela-
Data Science & AI

METHANE EMISSION MITIGATION FROM MARKET FOOD WASTE VIA COMPOSTING AND DEEP LEARNING-BASED OPTIMIZATION

This project aims to reduce methane emissions from decomposing market food waste through controlled composting, optimized using deep learning. By analyzing conditions like temperature, moisture, and pH, it promotes sustainable waste management, lowers environmental impact, and supports data-driven decisions in organic waste processing.



Leah Osukuku -
Cyber Security

DEVELOPING A COMPREHENSIVE SECURITY ASSESSMENT FRAMEWORK FOR WEB APPLICATIONS, MOBILE APPS, AND APIS: A CASE STUDY USING OWASP JUICE SHOP

This project introduces a unified security assessment framework for web, mobile, and API platforms using OWASP Juice Shop. It integrates practical tools to help SMEs identify vulnerabilities efficiently, demonstrating strong results in detection and resource-effective cybersecurity across modern digital ecosystems.

Kibabii University Student Beneficiaries



Lincy Jepchumba Kisorio-
Data Science & AI



Maurice Murunga-
Data Science & AI



Muchuka Catherine -
Cyber Security

MILK YIELD FORECASTING AND MANAGEMENT USING SMART DAIRY DATA

This project uses smart sensors and machine learning to forecast milk yield from real-time dairy data. It aims to improve farm efficiency, animal welfare, and sustainability by optimizing decisions on feeding, health, and resource use, transforming traditional dairy farming into a data-driven, productive, and cost-effective system.

COOKIE SECURITY ANALYSIS

This initiative explores cookies' benefits, like personalization and session management, while addressing privacy concerns such as tracking and data misuse. It provides tools and education to help users assess risks, manage cookies securely, and make informed decisions promoting transparency, ethical practices, and stronger awareness of online privacy.

CYBERGUARDIAN BOT SYSTEM

The CyberGuardian Bot project marked a turning point in my cybersecurity journey, blending AI, threat detection, and real-time reporting. Through hands-on training with tools like Kali Linux and Wireshark, I gained practical skills, built confidence, and found purpose in protecting systems transforming from a curious learner into a capable, impact-driven cybersecurity professional.



Owen Mulinya Kizito-
Data Science & AI



Owila Bildad Bazil-
Software Engineering



Reginald Mjomba Ateya-
Software Engineering

OPTIMIZING E-LEARNING ENGAGEMENT – MOODLE STACK ANALYTICS

This project uses temporal and behavioral analytics to enhance online learning by analyzing quiz duration vs. performance, tracking time-based patterns, and identifying at-risk learners. Focusing on Moodle's STACK in Kenya, it aims to optimize student engagement and outcomes in STEM education amid the growing shift to digital learning.

BULJO'S E-COMMERCE DATABASE DESIGN SYSTEM

This project is a comprehensive e-commerce management system developed by Sir Buljo Bazil using C#. It supports all four e-commerce models, B2B, B2C, C2C, and C2Benabling efficient handling of products, customers, orders, payments, and shipping to streamline online transactions for various organizational needs.

E-COMMERCE ORDER MANAGEMENT SYSTEM

The E-commerce Order Management System streamlines online order handling by capturing customer details, tracking products and quantities, and calculating total prices. It features real-time order status updates and flexible product tracking, enhancing service efficiency and accuracy from order placement to delivery.

Kibabii University Student Beneficiaries



Reinhard Simiyu-
Cyber Security

AI-BASED PHISHING EMAIL DETECTION SYSTEM

The AI-Based Phishing Email Detection System enhances email security by using machine learning to detect phishing attempts. It analyzes features like sender address, content, URLs, and images, achieving high accuracy in identifying threats. The system provides a scalable, real-time solution for protecting users from phishing attacks.



Robert Kipchirchir-
Data Science & AI

PREDICTING INFLATION TRENDS USING MACHINE LEARNING

This project builds a machine learning model to predict inflation based on macroeconomic indicators like GDP growth, unemployment rate, interest rate, and money supply growth. It uses XGBoost for regression and provides an interactive Streamlit app for policymakers, economists, and analysts to forecast inflation and simulate scenarios.



Samini W Patience -
Data Science & AI

EVALUATING THE EFFECTIVENESS OF CBC AWARENESS INITIATIVES IN BRIDGING KNOWLEDGE GAPS AMONG STAKEHOLDERS

This project evaluates the effectiveness of CBC awareness initiatives in improving stakeholders' understanding of career options, pathways, and assessments. It assesses baseline knowledge, measures improvements, identifies misconceptions, and analyzes individual student progress within the CBC framework to enhance overall awareness and understanding among students, parents, and teachers.



Samuel Omondi Ndire-
Data Science & AI

HEART DISEASE RISK PREDICTION USING MACHINE LEARNING

This project develops a machine learning model to predict heart disease risk using clinical and demographic data. By analyzing the Cleveland Heart Disease dataset, a user-friendly Streamlit app allows users to input health parameters and receive predictions, with interactive visualizations and model performance metrics for better understanding.



Teresa Kwamboka Nyasinga-
Data Science & AI

PREDICTING HOUSE RENTAL PRICES USING REGRESSION MODELS AND DEEP NEURAL NETWORKS

This project uses machine learning and deep learning to predict rental prices by analyzing property features and market trends. It aims to provide accurate, data-driven pricing insights for property owners, tenants, and real estate platforms, reducing guesswork, minimizing human bias, and improving decision-making in the dynamic housing market.



Wilfred Nyaribo Omwoyo-
Software Engineering

DAMUCARE SYSTEM

DamuCare is a system designed to manage blood donations, requests, and records for patients, donors, and admins. It allows patients to request blood, track request history, and ensures efficient processing. The system aims to streamline blood donation workflows and enable quick responses to blood shortages, improving patient care.



Vivian Ingaitsa-
Data Science & AI

MULTI-MODAL EMOTION ANALYSIS FOR ACCESSIBLE MEDIA CONTENT

EmoVision is an AI-powered system that uses facial expression recognition and vocal emotion analysis to enhance accessibility for hearing- and visually impaired users. It generates real-time emotion subtitles and audio descriptions, improving engagement and understanding, with a web interface for secure video uploads and insights.

Open University of Kenya Student Beneficiaries



Agnes Katui Maithya -
Cybersecurity

SAFEMINOR KENYA

A mobile app integrated with USSD technology will allow quick reporting of GBV cases against minors in Kenya, even offline. It supports English and Kiswahili, improving case management, coordination among police, hospitals, and support groups, ensuring timely protection and justice for young survivors.



Allan Kimutai -
Data Science & AI

ENHANCED ACCESSIBLE PUBLIC TRANSPORT SYSTEM FOR ELDERLY AND PERSONS WITH DISABILITIES COMMUTERS IN KENYA

The project uses AI (CNN) object detection to create a better public transport system, making boarding easier and more dignified for physically disabled and elderly commuters. It aims to improve accessibility, safety, and comfort through smart, responsive transport solutions.



Alvin Komo Muoge -
Data Science & AI

SMARTSAVE

The project is a data-driven financial platform designed to help youth manage their funds and improve financial literacy. It offers tools for budgeting, saving, and tracking expenses, empowering young people to make informed financial decisions and build sustainable economic habits for a more secure future.



Beth Nyambura Nuguna-
Data Science & AI

CAREER PATH PREDICTION

This project is an AI-powered career guidance platform that helps Kenyan and African youth discover personalized career paths by analyzing CVs, academic records, and personality traits. It aligns with the CBC model, matches users with careers, internships, and skills, and promotes entrepreneurship through practical, real-world recommendations.



Collins Kipchumba -
Data Science & AI

CHANGABOT

The project bridges M-Pesa and WhatsApp by automating contributions: when someone sends money to your M-Pesa, the transaction is instantly reflected on WhatsApp. This seamless integration improves transparency, speeds up tracking, and simplifies group or community financial contributions through real-time updates.



Dan Ogora Anahinga-
Data Science & AI

ELEWAPESA

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Open University of Kenya Student Beneficiaries



Duncan Kiptoo -
Data Science & AI

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Elsher Shaddrah Maudi -
Cybersecurity

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Erick Odeny Oduong -
Data Science & AI

SMART SAVE

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Esther Gift Ochieng -
Data Science & AI

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Gladys Chepngetich -
Software Engineering

RENTALS AND RELOCATION SERVICES WITH AI

The Rentals and Relocation Services system connects landlords, tenants, and movers, helping tenants find rentals and transport belongings easily. It uses AI to detect and prevent theft during moving, ensuring a secure, smooth relocation experience.



Gregory Nzula -
Software Engineering

RENTALS AND RELOCATION SERVICES WITH AI

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Open University of Kenya Student Beneficiaries



Ian Kipkulei Yator -
Software Engineering

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Isaack Mutembei Sani -
Data Science & AI

SMART SAVE DATA DRIVEN FINANCIAL LITERACY PLATFORM

This platform helps users budget their funds based on standard criteria and provides financial management literacy to improve their money management skills.



Jennifer Dama Gathu -
Cybersecurity

KENYA POLICE MANAGEMENT SYSTEM

The Kenya Police Management System is a centralized digital platform that enhances case handling by automating record-keeping, improving transparency and accountability, and enabling seamless integration with the judiciary for better justice delivery.



Joan Musimbi Atsiaya -
Data Science & AI

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John Otieno -
Data Science & AI

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Joseph Baya Karisa -
Data Science & AI

VISION-BASED APP FOR MAIZE CROP MANAGEMENT.

The project involves creating a web app for farmers to manage their maize crops. The app detects early signs of disease, classifies maize leaves as healthy or diseased, and provides guidance on mitigation, helping farmers improve crop health and yield.

Open University of Kenya Student Beneficiaries



Joylene Chepkoech Kirui -

Cybersecurity

A SECURE IOT & SMART -HOME
GUARDIAN FOR KENYA

This project aims to provide comprehensive security for all your internet-connected devices, protecting your home network from hackers, malware, and privacy breaches, ensuring a safe and secure online environment.



Judy Wambui Mutiso -

Cybersecurity

SAFEMINOR KENYA

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Kasilu Mwende Purity -

Data Science & AI

AI-POWERED CAREER PATH PREDICTOR

The project aims to develop a machine learning model that suggests potential career paths based on an individual's education, skills, interests, and work experience. By analyzing historical data, the model offers personalized recommendations to help students, job seekers, and career advisors plan future career development.



Kaunda Sheila Kendi -

Data Science & AI

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Kelasyo Robin Kuya -

Data Science & AI

ELEWAPESA

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Lucian Talu Mayabi -

Data Science & AI

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Open University of Kenya Student Beneficiaries



Maureen Agnes Adhiambo -
Data Science & AI

DATA CLEANING AND ORGANISING

This project focuses on data cleaning and organizing by transforming raw, inconsistent data into accurate, structured, and usable formats. It involves identifying and correcting errors, removing duplicates, handling missing values, and standardizing entries to ensure high-quality datasets that support effective analysis, reporting, and data-driven decision-making.



Moses Mumo -
Data Science & AI

PROJECT 678

This project aims to develop a data-driven recommendation system that analyzes user preferences, behaviors, and historical data to provide personalized suggestions. The system is designed to enhance user experience by delivering relevant recommendations in various domains, such as products, services, or career paths.



Moses Ngugi -
Cyber security

KENYA POLICE MANAGEMENT SYSTEM

The Kenya Police Management System is a centralized digital platform that enhances case handling by automating record-keeping, improving transparency and accountability, and enabling seamless integration with the judiciary for better justice delivery.



Murunga Simuyu Daniel -
Data Science & AI

VISION-BASED APP FOR MAIZE CROP MANAGEMENT.

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Peter Gitau Njoroge -
Cybersecurity

SECURE IOT & SMART-HOME GUARDIAN FOR KENYA

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Rashid Otieno Juma -
Software Engineering

RENTAL AND RELOCATION SERVICES

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Open University of Kenya Student Beneficiaries



Ray Obiero -
Data Science & AI

ENHANCED ACCESSIBLE PUBLIC TRANSPORT SYSTEM FOR THE ELDERLY AND PERSONS WITH DISABILITIES

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Rose Milash Tifanny -
Data Science & AI

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Shalton Kiplimo -
Data Science & AI

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Selina Auma -
Data Science & AI

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Shila Wanjiku Mwaringa -
Cybersecurity

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Stella Muthoni -
Data Science & AI

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Open University of Kenya Student Beneficiaries



Sylvia Nduku Nzuki-

Data Science & AI

CHANGABOT

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Waita Mercy Mwende -

Data Science & AI

DESIGN AND EVALUATION OF AN AUTOMATED SQL INJECTION TOOL

This project is a cybersecurity tool that automatically detects SQL injection vulnerabilities in website login pages. If a vulnerability is found, the tool simulates unauthorized access to demonstrate the risk. It is designed for ethical hacking and penetration testing to help developers secure their systems against real-world threats.



William Munyao Ngao -

Cybersecurity

SECURE IOT & SMART-HOME GUARDIAN FOR KENYA

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Kenyatta University Student Beneficiaries



Amos Musau Kioko -
Cyber Security

I-KINGA

I-Kinga is an AI-powered fraud detection system in Kenya, targeting digital scams, phishing, SIM swap fraud, and social engineering. It uses machine learning, NLP, geolocation, and user behavior analytics to detect fraud in real-time, adapting to Kenya's unique dialects and scam formats in mobile money and online banking.



Austin Tunoi -
Data Science & AI

SMART PLACEMENT

A machine learning-based recommendation system that suggests the most suitable university programs to students based on their interests, academic performance, and current market trends. The system personalizes recommendations to help students make informed decisions about their education and future career paths.



Brian Mwaka Wambua -
Data Science & AI

VETLINK

This project deals with enhancing livestock health services for rural farmers. It aims to provide accessible veterinary care, health monitoring, and early disease detection through mobile technology, improving livestock productivity and reducing losses in rural communities.



Caleb Ndung'u Muturi -
Software Engineering

AQUANEXUS - CONNECTING KENYA TO WATER SOLUTIONS

This project deals with creating AquaNexus, a web platform connecting Kenyan households, schools, institutions, and businesses with vetted rainwater harvesting installers and borehole service providers. It builds a transparent, trustworthy marketplace to expand access to sustainable water solutions across Kenya.



Cecilia Gatimu -
Data Science & AI

SKINCARE AFRICA

This project develops an AI-powered skin analysis model tailored for African skin tones, using computer vision and machine learning to detect and analyze conditions like acne and eczema, enhancing diagnostic accuracy and personalized skincare solutions.



Damaris Muthoki -
Software Engineering

CHAMAPLUS

This project deals with providing quick and easy access to cleaning services, running various household errands, and connecting users to remote job opportunities. It focuses on saving time, enhancing convenience, and creating employment opportunities by linking individuals to trusted service providers and flexible work options through a user-friendly platform.

Kenyatta University Student Beneficiaries



Fadhili Hanson Athe Ochola -
Data Science & AI

MARKET MATCH

This project aims to create a digital platform connecting farmers directly to buyers through contract farming. By linking farmers to a ready market, it reduces post-harvest losses and ensures efficient distribution of produce, improving farmers' income and promoting sustainable agricultural practices.



Faith Anzanzi Ngolo -
Data Science & AI

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Faith Melody Naisherua -
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Getrude Karegi Chabuga -
Data Science & AI

INVESTLINK AFRICA

This project develops , a digital platform connecting investors in Kenya with certified financial advisors and curated investment opportunities. It uses user profiles to offer personalized recommendations, promote financial literacy, and bridge the gap between investors and credible investment channels, fostering informed decisions and inclusive economic growth.



Gilbert Otieno Mboya -
Data Science & AI

MARKET MATCH

This project aims to create a digital platform connecting farmers directly to buyers through contract farming. By linking farmers to a ready market, it reduces post-harvest losses and ensures efficient distribution of produce, improving farmers' income and promoting sustainable agricultural practices.



Grace Nzambali Kitonyi -
Cyber Security

WEBGUARD

This project develops Webguard, an intelligent system that automates web application scanning and penetration testing, aligned with DevSecOps principles. Grounded in the OWASP Top 10, it identifies critical vulnerabilities like Injection flaws, Broken Authentication, XSS, and Security Misconfigurations, while providing targeted solutions.

Kenyatta University Student Beneficiaries



Hamza Mohamed -
Cyber Security

I-KINGA

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Harun Kipkosgei -
Data Science & AI

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Huldah Glory -
Data Science & AI

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Jacinta Kavata Mutia -
Cyber Security

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Jefferson Kiprotich Moi
Data Science & AI

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Joyce Ndulu Kau -
Software Engineering

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Maureen Wangui Ndugire -
Data Science & AI

KAZIHUB

This project deals with providing quick and reliable access to professional cleaning services, efficient household errands, and seamless connections to remote job opportunities. It aims to improve convenience for users by offering trusted service providers, saving time, enhancing productivity, and supporting flexible work options for different individuals and households.



Mburu Mwangi Stephen -
Cyber Security

SHIELD NET

This project deals with an AI-powered tool that collects, detects, and analyzes threat intelligence to curb cybersecurity threats efficiently. It strengthens digital security by identifying vulnerabilities, monitoring emerging risks, and providing actionable insights. The tool helps organizations prevent attacks, respond faster, and maintain robust protection against evolving cyber threats.



Mutuku John Mwendwa -
Cyber Security

INVESTLINK AFRICA

This project deals with an AI-powered tool designed to collect, analyze, and interpret threat intelligence. It helps organizations detect, prevent, and respond to cybersecurity threats efficiently. By leveraging advanced machine learning algorithms, the tool ensures real-time monitoring, enhances security frameworks, and reduces vulnerability to emerging cyber risks and attacks.



Naviava Stacey Mmbone -
Cyber Security

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Nicolette Kurwa Wafula -
Data Science & AI

INVESTLINK AFRICA

This project deals with an AI-powered tool that collects, detects, analyzes, and manages threat intelligence to curb cybersecurity threats efficiently. It enables organizations to stay ahead of potential cyberattacks by providing real-time data, improving threat response, enhancing digital security measures, and reducing risks across different online systems and networks.

Kenyatta University Student Beneficiaries



Ojuka Calvince Omondi -

Data Science & AI

SMART PLACEMENT

A machine learning-based recommendation system that suggests the most suitable university programs to students based on their interests, academic performance, and current market trends. The system personalizes recommendations to help students make informed decisions about their education and future career paths.

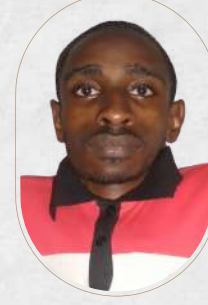


Peninah Waithera Kagucia -

Data Science & AI

KAZIHUB

This project deals with providing quick and reliable access to professional cleaning services, efficient household errands, and seamless connections to remote job opportunities. It aims to improve convenience for users by offering trusted service providers, saving time, enhancing productivity, and supporting flexible work options for different individuals and households.



Philip Wainaina Waithaka -

Data Science & AI

I-KINGA

I-Kinga is an AI-powered fraud detection system in Kenya, targeting digital scams, phishing, SIM swap fraud, and social engineering. It uses machine learning, NLP, geolocation, and user behavior analytics to detect fraud in real-time, adapting to Kenya's unique dialects and scam formats in mobile money and online banking.



Prudence Shayne Jemutai -

Data Science & AI

KAZI HUB

This project deals with providing quick and reliable access to professional cleaning services, efficient household errands, and seamless connections to remote job opportunities. It aims to improve convenience for users by offering trusted service providers, saving time, enhancing productivity, and supporting flexible work options for different individuals and households.



Shelmith Miano -

Software Engineering

AQUANEXUS - CONNECTING KENYA TO WATER SOLUTIONS

This project deals with creating AquaNexus, a web platform connecting Kenyan households, schools, institutions, and businesses with vetted rainwater harvesting installers and borehole service providers. It builds a transparent, trustworthy marketplace to expand access to sustainable water solutions across Kenya.



Shirleen Nasimiyu Matimbai -

Cyber Security

SHIELD NET

This project deals with an AI-powered tool that collects, detects, and analyzes threat intelligence to curb cybersecurity threats efficiently. It strengthens digital security by identifying vulnerabilities, monitoring emerging risks, and providing actionable insights. The tool helps organizations prevent attacks, respond faster, and maintain robust protection against evolving cyber threats.

Kenyatta University Student Beneficiaries



Victory Nthenya Karoro -
Data Science & AI

SMART PLACEMENT

A machine learning-based recommendation system that suggests the most suitable university programs to students based on their interests, academic performance, and current market trends. The system personalizes recommendations to help students make informed decisions about their education and future career paths.



Vincent Ojiambo -
Software Engineering

CHAMAPLUS

This project deals with providing quick and easy access to cleaning services, running various household errands, and connecting users to remote job opportunities. It focuses on saving time, enhancing convenience, and creating employment opportunities by linking individuals to trusted service providers and flexible work options through a user-friendly platform.



Winnie Anyango Atungo -
Data Science & AI

MARKET MATCH

This project aims to create a digital platform connecting farmers directly to buyers through contract farming. By linking farmers to a ready market, it reduces post-harvest losses and ensures efficient distribution of produce, improving farmers' income and promoting sustainable agricultural practices.

TUM Student Beneficiaries



Abdinoor Mohammed Ali-
Software Engineering

HEALTH INFORMATION SYSTEM FOR CLIENT REGISTRATION AND PROGRAM ENROLLMENT

This project focuses on developing a digital health information system that enables easy client registration, enrollment into health programs, and management of health-related data. It uses Django for the backend, Vue.js for the frontend, and integrates Retrieval-Augmented Generation (RAG) for advanced data handling and recommendations



Allan Kigen-
Software Engineering

MARITIME VESSEL MANAGEMENT SYSTEM.

This project focuses on vessel and crew management by providing a system to register new vessels and store essential vessel information. It also manages crew details, certifications, and assignments. Additionally, it includes voyage tracking features, helping maritime authorities or organizations streamline operations, ensure compliance, and improve overall maritime logistics.



Alphonse Owiti-
Software Engineering

DEVELOPMENT OF A DYNAMIC WEBSITE FOR BAHARI MEZANI LTD (FORMERLY MESUCT HUB): ENHANCING VISIBILITY AND ACCESS TO SUSTAINABLE BLUE ECONOMY SOLUTION

This project involves creating a professional, user-friendly website for Bahari Mezani Ltd to showcase its work in sustainable aquaculture, blue economy innovations, and circular economy practices. The site will feature services, products, project updates, mentorship programs, and customer interaction tools to strengthen the company's digital presence.



Ambra Munyuli Mjumba-
Data Science & AI

BLUESENTINEL

This project develops a data-driven dashboard and AI model to analyze and visualize marine pollution trends. By integrating satellite data, ocean metrics, and citizen reports, it identifies waste hotspots, predicts pollution levels, maps affected areas, and highlights biodiversity threats, while recommending targeted eco-actions and supporting community cleanup initiatives.



Athuman Mwachizungu Masudi-
Data Science & AI

FLOOD RISK DASHBOARD FOR MOMBASA COUNTY

The Flood Risk Dashboard for Mombasa County is an interactive visual tool designed to provide real-time insights into flood risks. By integrating data from weather forecasts, historical flood records, terrain mapping, and drainage systems, it helps stakeholders understand current vulnerabilities, anticipate future risks, and support timely decision-making and disaster preparedness.



Bett Levy Laikong-
Data Science & AI

AI-POWERED MARINE SPECIES RECOGNITION

This project uses AI and computer vision (YOLOv8) to detect and classify fish and marine mammals in underwater imagery. It aids biodiversity tracking, sustainable fishing, and species conservation by identifying marine life in real time from drone or camera footage, supporting research with minimal human intervention.

TUM Student Beneficiaries



Branice Awino -
Data Science & AI

SALES FORECASTING USING TIMESERIES

This project focuses on predicting future sales using time series analysis techniques by analyzing historical sales data. It identifies trends, seasonal patterns, and fluctuations to generate accurate forecasts. These insights support businesses in making informed decisions on inventory, budgeting, and marketing strategies, ultimately improving operational efficiency and profitability.



Brenda Chepng'eno -
Data Science & AI

DATA-DRIVEN CONSERVATION: TRACKING MANGROVE COVERAGE AND SEA PLANTS ALONG KENYA'S COASTLINE

This project analyzes changes in mangrove and marine plant coverage along Kenya's coast using geospatial data and Python tools. By detecting spatial and temporal patterns, it provides valuable insights to support conservation planning, monitor environmental degradation, and guide sustainable blue economy initiatives focused on preserving coastal ecosystems and biodiversity.



Brian Alois Juma-
Software Engineering

TELEFARM

This platform connects farmers to reliable markets, inputs, and services remotely, offering convenience from any location. It uses remote monitoring and AI to analyze farm data, detect pests and disease outbreaks, and boost productivity, ensuring transparency, trust, and improved decision-making for farmers locally and abroad.



Brian Tole -
Data Science & AI

IMAGE RECOGNITION SYSTEM TO CLASSIFY MARINE DEBRIS FROM DRONE IMAGES

This project aims to classify various types of marine debris by analyzing aerial footage captured by drones. Using computer vision and machine learning techniques, the system identifies and categorizes marine waste, supporting environmental cleanup efforts, improving data collection on ocean pollution, and informing targeted strategies for marine conservation.



David Olwangu-
Software Engineering

GENDER BASED VIOLENCE CONTROL APPLICATION

This application provides a safe, confidential platform for victims of gender-based violence (GBV) and other users to report incidents. It enables real-time reporting, location tracking, and connects users to emergency services, support organizations, and legal aid. The goal is to empower victims and improve GBV response and prevention efforts.



Dennis Benard Wambua -
Data Science & AI

AGRITECH SOLUTIONS

This project uses artificial intelligence to analyze and detect plant diseases early by examining leaf images and identifying symptoms such as discoloration, spots, or deformities. By leveraging machine learning models, farmers can receive real-time diagnoses, enabling timely interventions that improve crop health, reduce losses, and support sustainable agriculture practices.

TUM Student Beneficiaries



Edwin Mandela Obiri-
Data Science & AI

PREDICTIVE MAINTENANCE SYSTEM FOR SMALL-SCALE FISHING BOATS IN COASTAL KENYA

This project uses engine sensor data to predict maintenance needs for small-scale fishing boats in coastal Kenya. By preventing unexpected breakdowns, it reduces repair costs, minimizes downtime, and extends engine life—boosting fishing efficiency and supporting the economic stability of coastal communities through timely, data-driven maintenance decisions.



Eliot Manacita Owiti-
Software Engineering

MARITIME VESSEL MANAGEMENT SYSTEM.

This project focuses on vessel and crew management by providing a system to register new vessels and store essential vessel information. It also manages crew details, certifications, and assignments. Additionally, it includes voyage tracking features, helping maritime authorities or organizations streamline operations, ensure compliance, and improve overall maritime logistics.



Emmanuel Atua-
Software Engineering

OCEAN HUB

Ocean Hub is a blue economy platform promoting sustainable ocean activities. It features a marine product marketplace, tools to report illegal trafficking, a community forum, smart chatbot, and real-time weather updates. The platform connects stakeholders, supports ocean conservation, and drives economic growth through tech-enabled maritime solutions.



Fatuma Said Jillo-
Data Science & AI

AI-POWERED MARINE SPECIES RECOGNITION

This project uses AI and computer vision to detect and classify fish and marine mammals in underwater videos. By identifying species in real time, it supports biodiversity tracking, reduces bycatch, and aids conservation. Deployed via mobile apps or drones, it offers scalable, low-intervention marine monitoring solutions.



Francisca Nabwire-
Software Engineering

FISH_MARKET

This platform directly connects fisherfolk with buyers, cutting out exploitative middlemen who often reduce profits for both sides. It enables fair pricing, transparent transactions, and better market access for small-scale fishers. Buyers benefit from fresh, traceable seafood, while fishing communities gain improved incomes and economic empowerment through direct digital engagement.



Hamisi Bakari Dzimwenga-
Data Science & AI

AI MODEL TO PREDICT FISH HARVEST VOLUMES USING WEATHER & OCEAN DATA.

This project builds an AI model to predict fish harvest volumes using environmental data such as weather, ocean temperature, and salinity. By analyzing historical and real-time inputs, it helps fisheries optimize catch timing, reduce overfishing, and improve planning, contributing to sustainable practices and greater economic efficiency in marine operations.

TUM Student Beneficiaries



John Nyang'au Kinyosi-
Data Science & AI

PREDICTIVE MAINTENANCE SYSTEM FOR SMALL-SCALE FISHING BOATS

This system uses engine sensor data to predict maintenance needs for small-scale fishing boats in coastal Kenya. It helps prevent breakdowns, reduce repair costs, and minimize downtime. By improving efficiency and extending engine life, the project supports economic stability and reliable fishing operations in coastal communities.



Judiana Mukai Sila -
Data Science & AI

IMAGE RECOGNITION TO CLASSIFY MARINE DEBRIS FROM DRONE IMAGES

This project aims to identify and classify various types of marine debris by analyzing aerial drone footage. Using computer vision techniques, it helps detect plastic, nets, and other waste in coastal and ocean areas. The system supports cleanup efforts, improves environmental monitoring, and contributes to marine conservation strategies.



Julius Mwakichi-
Data Science & AI

FLOOD RISK DASHBOARD FOR MOMBASA COUNTY

The flood risk dashboard for Mombasa County is an interactive visual tool that integrates real-time weather data, topographic maps, and historical flood records to inform stakeholders about current and projected flood risks. It supports disaster preparedness, urban planning, and emergency response by offering clear, data-driven insights into flood-prone areas.



Justine Terite Lesiali-
Data Science & AI

DATA-DRIVEN SITE SELECTION AND GROWTH PREDICTION FOR RED SNAPPER

This project uses environmental and geospatial data to identify optimal sites for Red Snapper (*Lutjanus campechanus*) cage farming along the Mombasa coast. By analyzing factors like water temperature, salinity, and depth, it predicts ideal growth conditions and supports data-driven decisions for sustainable aquaculture expansion in the region.



Kang'isecha Krop Michael-
Software Engineering

TRUCKING APPOINTMENT SYSTEM

The Trucking Appointment System streamlines truck scheduling at Kenya Ports Authority by allowing transporters to book time slots for loading and offloading. It reduces congestion, improves turnaround time, and enhances coordination through real-time booking, notifications, and an admin dashboard, boosting efficiency and transparency in port operations.



Kelvin Kimaru -
Data Science & AI

AI MODEL TO PREDICT FISH HARVEST VOLUMES USING WEATHER & OCEAN DATA

This project builds an AI model to predict fish harvest volumes using weather, ocean temperature, salinity, and other environmental data. By analyzing historical and real-time inputs, the system helps fisheries optimize yields, reduce overfishing, and enhance decision-making, ultimately supporting sustainability and improving economic outcomes in the fishing industry.

TUM Student Beneficiaries



Laura Achieng Nyangor-
Data Science & AI

**OPTIMIZING PORT OPERATIONS:
PREDICTING VESSEL ARRIVALS AND
DOCKING SCHEDULES USING MACHINE
LEARNING.**

This project uses machine learning to predict vessel arrival times and optimize docking schedules by analyzing historical data, weather, and real-time traffic. It aims to reduce port congestion, minimize waiting times, and improve logistics coordination—boosting efficiency, cutting costs, and enhancing resource management for ports and shipping companies.



Lucky Mwende Mutua-
Software Engineering

MARITIME VESSEL MANAGEMENT SYSTEM.

This project focuses on vessel and crew management by providing a system to register new vessels and store essential vessel information. It also manages crew details, certifications, and assignments. Additionally, it includes voyage tracking features, helping maritime authorities or organizations streamline operations, ensure compliance, and improve overall maritime logistics.



Mwaele Emmanue Mwadeghu-
Software Engineering

READY4UNI

This project is a tool designed to help high school students make informed decisions when selecting universities and courses. It provides guidance based on interests, career goals, and academic performance, aiming to reduce guesswork and improve alignment between student choices and future opportunities.



Naomi Akinyo Odwa-
Data Science & AI

**BLUESENTINEL: AI-POWERED MARINE WASTE
DETECTION AND CONSERVATION DASHBOARD**

This project builds a data-driven dashboard and AI model to analyze marine pollution trends using satellite data, citizen reports, and machine learning. It identifies waste hotspots, biodiversity threats, and cleanup efforts, offering visual insights, predicting pollution levels, and recommending eco-friendly actions to support conservation and informed decision-making.



Rashidi Mwaga Sefu-
Software Engineering

FISH MARKET PLATFORM

This project creates a digital platform that directly connects fisherfolk with buyers, eliminating exploitative middlemen. By offering real-time listings of available catch, secure payment options, and fair pricing, the site ensures better income for fishers and affordable seafood for consumers. It promotes transparency, trust, and efficiency in the seafood supply chain.



Ruth Wanjiru Mwaniki-
Software Engineering

**GENDER BASED VIOLENCE CONTROL
APPLICATION**

This mobile application empowers gender-based violence (GBV) victims and concerned individuals to report incidents safely and anonymously. It features secure case submission, real-time alerts to authorities or support centers, and access to counseling resources. The app aims to increase reporting, enhance victim protection, and promote swift response and justice.

TUM Student Beneficiaries



Samuel Wafula-
Data Science & AI

PREDICTIVE MAINTENANCE IN SMALL SCALE FISHING BOATS

This project builds a predictive maintenance system for small-scale fishing boats in coastal Kenya. Using engine sensor data, it forecasts maintenance needs to prevent breakdowns, reduce repair costs, and minimize downtime. The system enhances fishing efficiency, extends engine lifespan, and supports the economic stability of coastal communities.



Terry Nafula Waswa-
Software Engineering

EQUAGENDER

This project aims to reduce gender-based violence (GBV) in Kenya by enabling anonymous reporting, sending emergency alerts to trusted contacts, and raising awareness. It provides educational resources and survivor stories to inform communities about GBV types, helping prevent incidents and empowering individuals to act against violence from anywhere.



Thomas Richu-
Data Science & AI

SMARTPOT BOT ASSISTANT

This project improves port operations by reducing ship and client turnaround time. It leverages digital tools and predictive analytics to streamline scheduling, cargo handling, and traffic flow. The system enhances coordination, minimizes delays, and boosts overall efficiency, ensuring smoother logistics and better service delivery at the port.



Zipporah Rehema Yaah-
Data Science & AI

PREDICTING VESSEL ARRIVALS AND DOCKING SCHEDULES USING MACHINE LEARNING

This project enhances port efficiency by using machine learning to predict vessel arrivals and optimize docking. It analyzes historical data, weather, and real-time traffic to forecast arrivals and assign berths. The system reduces congestion, shortens waiting times, and improves coordination, saving costs for port authorities and shipping companies.

Jomo Kenyatta University Student Beneficiaries



Serah Wanjiku Maina-
Cyber Security



Charity Koki Mulei-
Cyber Security



Valentine Monyangi Momanyi-
Cyber Security



Hillary Oyugi Odhiambo -
Data Science & AI

DDOS SIMULATION TOOLKIT PROJECT

This web application is designed to simulate Distributed Denial of Service (DDoS) attacks in a safe and controlled environment. It allows users to create and analyze various types of DDoS scenarios to test the resilience and performance of networks, servers, or security systems. The platform is intended for cybersecurity professionals, researchers, and students to study attack behavior, evaluate mitigation strategies, and improve response planning. With customizable attack parameters and real-time monitoring, it provides a practical tool for understanding and defending against DDoS threats without risking actual infrastructure or violating legal and ethical guidelines.



Eucabeth Awino-
Cyber Security



Dennis Ndegwa -
Data Science & AI



Felix Rotich-
Data Science & AI



Lemmis Murangiri-
Data Science & AI



Angela Wamuyu Nyaga -
Cyber Security



Faith Mwangi -
Cyber Security

MAMA GUARDIAN PROJECT

The "Mama Guardian AI" project aims to reduce Kenya's high maternal mortality rates through an innovative predictive health analytics system. Leveraging supervised machine learning, the tool analyzes maternal health data to identify high-risk pregnancies at an early stage. It delivers actionable risk assessments to healthcare providers, enabling timely and targeted interventions. The solution supports Kenya's Universal Health Coverage (UHC) objectives by enhancing maternal care accessibility and responsiveness. The system includes a mobile application for data collection by health workers, a web-based dashboard for real-time monitoring, and an SMS alert feature to notify at-risk mothers and community health volunteers promptly.

Jomo Kenyatta University Student Beneficiaries



Mary Diana Obat-
Cyber Security



Caleb Kimutai Rono-
Cyber Security



Caren Chemutai Limo-
Cyber Security

CO-CYBER LAW PROJECT

Co-Cyber Law is an AI-powered chatbot platform developed to demystify Kenya's Computer Misuse and Cybercrimes Act, 2018 by translating complex legal jargon into simple, everyday language. The platform empowers citizens to better understand their digital rights and responsibilities, making legal knowledge more accessible to the general public. By promoting digital literacy and awareness, Co-Cyber Law helps users make informed decisions and adopt safer online practices. The initiative aligns with Sustainable Development Goal (SDG) 16, which promotes peace, justice, and strong institutions, as well as SDG 9, which encourages innovation and infrastructure, by fostering responsible digital engagement in Kenya's growing tech landscape.



Antoinette Wangari-
Cyber Security



Godfrey Otieno-
Data Science & AI



Maxwell Simiyu-
Cyber Security



Erick Kuria-
Data Science & AI



Mary Wekesa-
Data Science & AI

FARM EYE PROJECT

This farm monitoring system is designed to enhance agricultural productivity by continuously assessing farm health based on key environmental factors such as soil moisture, humidity, and temperature. By analyzing these variables, the system can predict crop yield and provide early warnings to optimize farming practices. It features advanced capabilities such as plant disease detection, allowing for the identification of symptoms and suggestion of remedies before the disease fully develops. Additionally, it offers recommendations to improve soil conditions, including adjustments to soil pH and moisture levels. This smart solution supports data-driven farming, helping farmers make timely, informed decisions for better outcomes.

Jomo Kenyatta University Student Beneficiaries



Dida Shukri-
Data Science & AI



Naomi Nyabuti-
Data Science & AI



Ruth Bonareri-
Cyber Security



Patrose Leshinka-
Cyber Security

EDUROUTES PROJECT

EduRoutes is an intelligent school transport solution designed to optimize bus routes using real-time data and advanced technology. Aimed at reducing commute times and enhancing safety for students across Nairobi, the system analyzes traffic patterns, student locations, and road conditions to create the most efficient and reliable routes. By minimizing travel time, EduRoutes not only improves student well-being but also supports punctuality and reduces fuel consumption. The platform includes features such as GPS tracking, live updates for parents and schools, and emergency alerts, making school transportation smarter, safer, and more transparent for all stakeholders involved.



Bernard Alvan-
Data Science & AI



Cydney Chelangat-
Data Science & AI



Dennis Kiptui-
Data Science & AI



Rahab Majira-
Data Science & AI

AGRI SCAN PROJECT

Agriscan is an intelligent tomato leaf disease predictor that leverages image analysis to identify and classify various diseases affecting tomato plants. By using computer vision and machine learning, the system examines visual features such as spots, discoloration, curling, and other abnormalities on tomato leaves. Once a disease is detected, Agriscan accurately identifies its type and provides tailored recommendations for treatment or management. This tool empowers farmers with early disease detection, reducing crop loss and improving yield quality. Easy to use via a mobile interface, Agriscan supports smarter, data-driven agriculture by offering timely insights and practical solutions for healthier tomato crops.

Jomo Kenyatta University Student Beneficiaries



Cherotich Faith-
Data Science & AI



Jotham Mboya-
Data Science & AI



Vallarie Seroney-
Data Science & AI



Ezinah Kwamboka -
Data Science & AI



Mercy Okumu-
Data Science & AI



Maxwell Gitonga-
Data Science & AI

BIZMATCHKE

BizMatchKE is a digital platform designed to assist aspiring entrepreneurs in Kenya by providing personalized business ideas based on factors like location, budget, skills, and market needs. This system aims to address the overwhelming and often confusing advice many individuals receive on social media by offering tailored recommendations that align with users' specific circumstances. The process starts with a simple survey where users input their skills, resources, and interests in a web-platform. An LLM then analyzes this data alongside real-time local market trends to generate viable, sustainable business ideas. The platform not only suggests ideas but also provides step-by-step guides, estimated startup costs, and resources for mentorship, training, and funding. Targeted at youth, women, rural populations, and unemployed individuals, BizMatchKE empowers users to make informed entrepreneurial decisions, boosting the chances of business success and contributing to economic growth. It aligns with SDGs 1 (No Poverty) and 8 (Decent Work and Economic Growth) by fostering self-sufficiency and job creation in local communities. With its data-driven approach, BizMatchKE is set to transform the way entrepreneurs access business ideas, enabling them to embark on sustainable and impactful ventures.

Mama Ngina University Student Beneficiaries



Agneta Jelimo Kiplagat -
Cyber Security

INTRUSION DETECTION SYSTEM

This IDS project uses Ubuntu Server and tools like Snort and Filebeat to monitor network traffic and detect threats such as port scans or brute-force attacks. It enhances security by identifying suspicious activity early and forwarding logs for real-time analysis and response.



Amos Kipyegon Ngeno -
Data Science

ASK NGINA

"Äsk Ngina" is an AI-powered chatbot designed for Mama Ngina University to assist students and stakeholders by offering instant, accurate answers on academic programs, campus life, directions, and key resources, enhancing communication and access to information.



Ben Muuo Wetu -
Data Science & AI

SENTIMENT ANALYSIS

Build a model that identifies sentiment conveyed in a text, be it a social media post, customer review for a product, service delivery, business as a whole. A model that can be employed to analyse how people feel about a product, a business, service delivery or any other form of customer review and many more.



Daniel Kamau Kuru -
Cybersecurity & Forensics

INTRUSION DETECTION SYSTEM

Intrusion detection system using ubuntu server as a victim and kali linux as the attacker machine snort system to sniff intrusion and any suspicious activities like malware and viruses.



Deborah Njeri Kibiru -
Data Science & AI

SENTIMENT ANALYSIS

Sentiment analysis uses natural language processing and machine learning to detect emotions in text. It helps businesses gauge customer opinions, monitor brand reputation, and uncover areas for improvement by analyzing reviews, feedback, and social media posts.



Denis Kiprotich Kemboi -
Data Science & AI

LEVERAGING AI AND DATA SCIENCE TO BRIDGE THE YOUTH SKILL GAP AND REDUCE URBAN UNEMPLOYMENT IN KENYA

This project uses AI to match urban Kenyan youth with suitable career paths by analyzing their skills and predicting job fit, then recommending personalized learning programs or digital job opportunities to bridge the skills gap and reduce unemployment.

Mama Ngina University Student Beneficiaries



Dorcas Jemosop -
Cyber Security

PHISHING URL DETECTOR

The Phishing URL Detector uses machine learning to analyze features like URL length, suspicious characters, and HTTPS usage. Trained on labeled data, it classifies links as safe or phishing and can be deployed in a web app to help users check URLs in real time.



Franklin Masila Kiamba -
Data Science & AI

RELIANCE STOCK PREDICTION

This project develops a predictive model to forecast Reliance Industries' stock prices using historical data, time series analysis, and machine learning. It helps investors and analysts identify trends and make informed decisions based on data-driven insights.



Hamda Said Ali -
Data Science & AI

HOTEL RESERVATIONS

SmartStay is a data-driven platform for mid-size and large hotels that predicts cancellations, optimizes pricing, and personalizes guest offers. By analyzing booking trends, it boosts occupancy, reduces no-shows, and enhances guest loyalty through tailored experiences and smarter decision-making.



Isaac Njoroge Kuria -
Data Science & AI

INTELLIGENT CONVERSATIONAL AGENT FOR ONLINE COMMUNICATION USING AIBM AND NEURAL NETWORKS

Intelligent Conversational Agents (ICAs), or chatbots, use AIML and neural networks to simulate human-like dialogue. They support real-time, interactive communication, improving user engagement and streamlining operations for businesses, schools, and service providers in the digital age.



James Shige Waithaka -
Data Science & AI

SENTIMENT ANALYSIS

Build a model that identifies sentiment conveyed in a text, be it a social media post, customer review for a product, service delivery, business as a whole. A model that can be employed to analyse how people feel about a product, a business, service delivery or any other form of customer review and many more.



John Ngurira Muhia -
Cyber Security

PHISHING FIRE FOR DATA COLLECTION

Simulating phishing in an organization is set up to create awareness by creating mock phishing emails for employees in an organization to test their awareness and response. Then recommending training materials based on the response.

Mama Ngina University Student Beneficiaries



John Mwangi Macharia -
Data Science & AI

ONLINE CASINO DATA ANALYSIS FOR FAIRNESS

This model analyzes aviator-style betting games to assess fairness in algorithms and gameplay. It supports an advisory system that predicts outcomes and offers real-time guidance to players, potentially deployed as a web or mobile app for safer, more informed online casino experiences.



Josephine Wambui Njuguna -
Data Science & AI

RENEWABLE ENERGY

Renewable energy Captured from sunlight using solar panels or solar thermal systems. It can generate electricity or heat and is widely used in both residential and commercial settings.



Judy Chebet -
Data Science & AI

SENTIMENT ANALYSIS

This project focuses on predicting future sales using time series analysis techniques by analyzing historical sales data. It identifies trends, seasonal patterns, and fluctuations to generate accurate forecasts. These insights support businesses in making informed decisions on inventory, budgeting, and marketing strategies, ultimately improving operational efficiency and profitability.



Kamau Joel Chege -
Data Science

KIDNEY DISEASE PREDICTION.

To develop and evaluate a machine learning-based predictive model that can identify individuals at high risk of developing CKD using non-invasive clinical data.



Kennedy Karanja Kimani -
Data Science & AI

SMART STAY

SmartStay is a platform for mid-size and large hotels that analyzes booking patterns to predict cancellations, optimize pricing, and personalize guest offers. It helps hotels improve occupancy, reduce no-shows, and reward loyal guests, leading to smarter decisions and more tailored guest experiences.



Margaret Akinyi Juma -
Cybersecurity

DIGITAL FORENSICS CONSULTATION PLATFORM- MAINLY FOR INVESTIGATING CYBER

This platform supports investigations of harassment, DGBV, and civil rights violations by providing tools and expert guidance for secure, ethical digital evidence handling. It serves as a hub for victims, investigators, and advocates, offering consultations, resources, reporting tools, and tailored support.

Mama Ngina University Student Beneficiaries



Mercy Naimutie -
Cyber Security

PHISHING FIRE DRILL

Simulating phishing in an organization set up to create awareness by creating mock phishing emails for employees in an organization to test their awareness and response. Then recommending training materials based on the response.



Mohamed Ali Ahmed -
Cyber security

INTRUSION DETECTION SYSTEM.

IDS will enable detection of intrusion into a system/server. With this there will be enhanced security measures to prevent intrusion.



Mohamed Nyahi Yusuf -
Data Science & AI

PREDICT EMPLOYEE ATTRITION IN A COMPANY

Employee turnover is costly for companies. Being able to predict which employees are likely to leave allows HR departments to intervene early and potentially retain valuable talent



Njogu Grace Wangui -
Data Science & AI

LEVERAGING AI AND DATA SCIENCE TO BRIDGE THE YOUTH SKILL GAP AND REDUCE URBAN UNEMPLOYMENT IN KENYA

This project uses AI to tackle urban youth unemployment in Kenya by predicting suitable career paths and recommending personalized learning or job opportunities, bridging the gap between job market demands and the skills of young job seekers.



Nyambati Dion Martin -
Cyber Security

DIGITAL FORENSICS CONSULTATION PLATFORM FOR INVESTIGATING CYBER HARASSMENT & DIGITAL GENDER-BASED VIOLENCE (DGBV) CASES AND CIVIL RIGHTS ACTIVITIES.

This Digital Forensics Consultation Platform supports investigations of cyber harassment, DGBV, and civil rights violations by providing secure tools, expert guidance, and ethical evidence handling. It serves as a resource hub with consultations, training, reporting tools, and support for victims, investigators, and legal professionals.



Odero Calvince Otieno -
Data Science & AI

HOTEL RESERVATION

Hotel Reservation is a smart platform for mid-size and large hotels that analyzes booking trends to predict cancellations, optimize pricing, and personalize guest experiences. It boosts occupancy, reduces no-shows, and helps retain loyal guests through data-driven decision-making.

Mama Ngina University Student Beneficiaries



Peris Njeri Mariga -
Cyber security

PHISHING FIRE DRILL

Simulating phishing in an organization set up to create awareness by creating mock phishing emails or employees in an organization to test their awareness and response. Then recommending training materials based on the response.



Philip Mukuha Manjagi -
Data Science & AI

CREDIT RISK PREDICTION

This project focuses on building a machine learning model to predict whether a loan applicant will default based on financial and demographic data. This type of model is critical for banks and financial institutions to make better lending decisions and reduce risks.



Philip Opiyo Ondego -
Cyber Security

PHISHING URL DETECTOR

The Phishing URL Detector is a machine learning system that identifies whether a URL is legitimate or a phishing attempt. It helps protect users from cyber threats by detecting malicious links designed to steal sensitive data like passwords or banking information.



Rachel Anyango Okumu -
Data Science & AI

CHATBOT FOR MENTAL HEALTH SUPPORT

A chatbot to address mental issues in work places. This project is meant to breach the gap between employees who suffer from mental issues and the therapist sessions. Sometimes it may take courage to open up to other person about your problem and also time frame for the therapy session.



Samuel Kamau Mungai -
Data Science & AI

RELIENCE STOCK PREDICTION IT IS A TIME SERIES PROJECT USING REAL WORLD DATA FROM YFINANCE

The project aims to develop a robust predictive model for forecasting the stock prices of Reliance Industries Limited. By using historical stock data and employing various data science and AI techniques, including time series analysis and machine learning algorithms, the project seeks to identify patterns and trends in the stock's behavior. The resulting model will provide significant understanding for investors and financial analysts, enabling them to make more rational decisions regarding Reliance stock.



Samuel Mathew Otieno Opondo -
Cybersecurity

PHISHING URL DETECTION

The Phishing URL Detector is a machine learning system that analyzes features like URL length and HTTPS usage to classify links as safe or phishing. Trained on labeled data, it powers a web app that helps users detect malicious URLs and protect sensitive information in real time.

Mama Ngina University Student Beneficiaries



Teddy Sharon Mumbi -
Data Science & AI

RELIANCE STOCK PREDICTION

This project builds a predictive model for Reliance Industries' stock prices using historical data, time series analysis, and machine learning. It uncovers patterns and trends to help investors and analysts make smarter, data-driven decisions.



Vincent Ngunjiri Rukwaro -
Cybersecurity & Forensics

PHISHING URL DETECTOR

The Phishing URL Detector uses machine learning to classify URLs as safe or phishing based on features like length, characters, and HTTPS usage. Trained on labeled data, it powers a web app that helps users identify malicious links in real time and protect sensitive information.



Wangila Esther Nangila -
Data Science & AI

HOTEL RESERVATIONS

This is a platform that helps hotels make smarter decisions about bookings and guest experiences. It also helps hotels recognize and reward loyal guests, making it easier to keep them coming back.



Marenga Malcolm Njoroge-
Cyber security

INTRUSION DETECTION SYSTEM.

This project monitors a machine's network traffic using Snort and Suricata to detect malicious packets. Suricata also acts as an Intrusion Prevention System (IPS), blocking harmful transmissions in real time to enhance network security and prevent potential cyberattacks.

Dedan Kimathi University of Technology



Everlyne Ndanu Makau-
Animation and Visual Effects

LOST AND FOUND

In a quite junkyard, a small robot wakes up with no memory of who it is. It meets a stray friend and the two become friends and start a journey toward the city, hoping to find answers. Along the way, the robot learns that being lost might help it find where it truly belongs.



Frank Wahome Njora-
Animation and Visual Effects

MAISHA YA NDUTHI NA MAPENZI

Brayo is heartbroken after his girlfriend dumps him for sending "goodnight love" to another woman - who as he claims, was just a customer. Kevo mocks his romantic mishap and offers his own version of "relationship therapy" drawing from his own experience of heartbreak and being conned.



Kirago Dennis Muturi
Animation and Visual Effects

PATHS OF THE FUTURE

Contrast between two boys who chose different paths. one decided to learn while the other dropped out.



Philip Muteti
Animation and Visual Effects

FAMILY TIME

It is about a family coming up and having a great time together



Victor Solitei Benard
Animation and Visual Effects

MBEGU MOJA

Two hungry brothers are left with nothing but a single coin and a choice.



Jeremiah Wekesa Simiyu
Animation and Visual Effects

QUIET MOMENT

An old man having a conversation with young girl



Jonathan K. Didacus
Animation and Visual Effects

DON'T LOSE YOUR FIRE

A son trades faith (fire) for temptation, losing his connection with Jesus, symbolized by a withered sacred place.



Kennedy Mwangi
Animation and Visual Effects

A SPARK WITHIN

A dim bulb struggles to light until someone switches it on, revealing it's hidden potential.



Gikonyo Mary Alicia Wangui
Animation and Visual Effects

DON'T STRETCH IT!

We meet a very normal young lady who beneath is an over overthinker. How we see in their point of View.

Dedan Kimathi University of Technology



Joash Kipkoech Rotich
Animation and Visual Effects

THE BUTTON

We step into a strange white room where a teenager faces a single, silent challenge, to press the red button and get what they want right now, or wait 60 seconds for something deeper and something real. As the seconds pass, distractions flash, pressure builds, and the clock becomes a mirror for every impulsive choice we've ever made.



Simon Mutahi
Animation and Visual Effects

OUR TIME!

A political drama set in a developing country, exploring themes of youth empowerment, corruption, and the fight for justice. The story follows Juma, a young and ambitious leader who runs for office against the corrupt leader Hon. Mateka. The story highlights the struggles of young leaders in corrupt political systems and the power of collective resistance.



Dorcas Gakure
Animation and Visual Effects

A SEED'S SOLILOQUY

"A Seed's Soliloquy" is a short 3D animated film about a small mango seed with big dreams. Left to wither under the scorching sun, it faces rejection and storms but holds on to one quiet promise: "I will grow." Through seasons of struggle, it transforms into a strong mango tree, offering fruit, joy, and shade to children beneath its branches. A poetic tale of resilience, it's a tribute to every dreamer who dares to rise against the odds.



Samuel Wainaina Kinoru
Animation and Visual Effects

WATCH YOUR WORD'S

A simple walk turns into a funny conversation when ben stumbles and curses, leading to a curious child's endless question.



Josephat Njehia
Animation and Visual Effects

OLD MAN AND THE TREE

In The Whispering Tree, an elderly man seeks solace beneath an ancient tree in a quiet meadow, where he reflects on the passage of time and the wisdom of nature. As he rests on a bench, the tree comes to life through its rustling leaves and gentle voice, engaging him in a heartfelt conversation about the importance of trees, memory, and legacy. Through their quiet dialogue, the film explores themes of environmental respect, generational connection, and the silent strength of the natural world. The story is a tender meditation on how listening to nature can ground us, teach us, and inspire us to leave something lasting behind.



Fred Kinyanjui
Animation and Visual Effects

HUSTLE IN NAIROBI

This 1-minute animated short doesn't preach—it reflects. It holds up a lens to the way we chase quick fixes, and gently reminds us: some things are worth the wait.



Kevin Makono
Animation and Visual Effects

SPIN TO LOSE

A student bets to pay rent—then loses it all in one aviator round.



Hadassah Muthoni Muturi
Animation and Visual Effects

SUBTLE KINDNESS

Small acts of kindness can brighten someone's day and your own.

Dedan Kimathi University of Technology



Gem Matiru Kagwa
Animation and Visual Effects

HUSH!

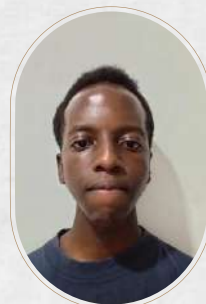
A sleep-deprived office worker spirals into madness when a single mosquito refuses to let him rest.



Joy Njeri Wangari
Animation and Visual Effects

THE BLIND WITNESS

A Blind woman helps by solving a difficult case



Victor Kamau
Animation and Visual Effects

IMPORTANCE OF READING.

A boy finds it hard to read but he is given the benefits of reading by a book



Brette Kimani
Animation and Visual Effects

TU-TERRACE, TUVUNE

soil conservation methods using terraces and tree planting



Isaac Maundu Muli
Animation and Visual Effects

DIGITAL SHADOWS

A political campaign that's almost wasted by false information spread through the social media.



Eugene Gichohii
Animation and Visual Effects

CAREER DAY

A father conversing with his two children about the possible career choices.



James Maingi Nginga
Animation and Visual Effects

CLIMATE CHANGE: IS IT TOO LATE TO SAVE OUR PLANET?

Burning fuels like petrol and charcoal traps heat, warming Earth and causing problems like droughts in Kenya that threaten elephants. Using clean energy like solar power and making small changes together offers hope if we act now.



Timothy Toywa
Animation and Visual Effects

BOTTLE-NECKED

Raise awareness against alcohol abuse among university students.

Dedan Kimathi University of Technology



Mark Mwangi
Data Science & AI

CHOLERA OUTBREAK FORECASTING IN KENYA USING TIME SERIES MODELS

This project aims to identify and predict cholera hotspots across Kenyan counties by analyzing historical cholera cases, population trends, and simulated weather data (rainfall and humidity) from 2017 to 2024. By combining time-series forecasting with classification models, it assesses risk levels (Low, Medium, High) to support early warning systems and help government agencies plan and implement targeted, data-driven public health interventions.



Ruth Njoki Kamau
Data Science & AI

PHISHING EMAIL DETECTION USING DEEP LEARNING

To develop an AI-powered phishing email detection model that uses NLP techniques and deep learning to accurately detect and flag phishing emails.



Fredrick Maina Mburu
Data Science & AI

THE BLIND WITNESS

This project aims to build a classification model that uses academic, demographic, and socioeconomic data to predict whether a student is likely to drop out. The insights gained from this model can then be utilized to implement targeted interventions and support systems for at-risk students, ultimately contributing to improved student retention rates and academic success.



Irungu Jane Njoki
Data Science & AI

THYROID CANCER DIAGNOSIS USING CONVOLUTIONAL NEURAL NETWORKS (CNNs)

This project is crucial for improving early detection accuracy, enabling timely treatment and better patient outcomes. CNNs enhance diagnostic precision by analyzing medical imaging data, such as ultrasounds, to distinguish malignant nodules from benign ones with high sensitivity. This AI-driven approach reduces human error, streamlines workflows, and supports clinicians in making data-driven decisions, ultimately advancing personalized healthcare.



Evaline Njeri Kahoro
Data Science & AI

TEA LEAVES DISEASE DETECTION AND CLASSIFICATION USING DEEP LEARNING.

This project focuses on developing an image classification system that can detect and classify common diseases in tea leaves using deep learning techniques. The goal is to help farmers identify diseases early and accurately using a mobile-friendly solution, ultimately reducing crop and yield loss and improving tea production quality and quantity.



Edward J. Chege Gichura
Data Science & AI

COFFEE DISEASE DETECTION USING DEEP LEARNING

This project leverages deep learning techniques to help in detecting of coffee diseases focusing on coffee rust which affect the leaves and coffee berry disease. The goal is to help farmers detect any diseases affecting their crops enabling them to take necessary measures on time.

Dedan Kimathi University of Technology



Rita Wanjiku Wanjau
Data Science & AI

KENYA ROADS REVIEW USING SENTIMENT ANALYSIS AND MACHINE LEARNING

Kenya's road maintenance is hindered by limited real-time data and unstructured public feedback. By collecting comments via the Reddit API, cleaning and labeling them, and applying sentiment analysis (Positive, Neutral, Negative), a machine learning model like Decision Tree or Random Forest can predict public perception of road conditions. A Flask web app will then display road profiles with sentiment dashboards and a rating system—Highly Rated, Moderate, or Caution Advised—to support informed decisions and proactive maintenance.



Valentine Wanjiku Mwai
Data Science & AI

EARLY DETECTION OF CROP DISEASES AND PESTS USING DEEP LEARNING TECHNIQUES

This project leverages deep learning to enable early detection of crop diseases and pests before they cause significant damage. While traditional methods rely on slow, manual inspections and expert judgment, this approach provides fast, accurate, and scalable diagnosis directly from field crop images. Focusing on maize, potatoes, and wheat, the project aims to help farmers improve crop yields, enhance food security in Kenya, reduce excessive chemical use, and make smarter, data-driven decisions for sustainable agriculture.



Cynthia Wangeci Munja
Data Science & AI

WINE QUALITY PREDICTION USING SUPERVISED MACHINE LEARNING

This project aims to predict wine quality using supervised machine learning models based on chemical properties such as alcohol content, pH, and residual sugar. By leveraging data from online sources, the system can help Kenyan wine producers, importers, and retailers make data-driven decisions to optimize product quality and meet consumer preferences.



Miako Joyce Njeri
Data Science & AI

FLOOD RISK PREDICTION IN KENYA USING TIME-SERIES DATA AND SUPERVISED LEARNING

Floods are among the deadliest and most disruptive natural disasters in Kenya—displacing communities, damaging infrastructure, and destroying livelihoods. Yet, most regions lack timely, data-driven warning systems.

This project bridges that gap by building a smart, affordable, and scalable flood prediction system using Artificial Intelligence (AI), with a specific focus on time-series modeling and supervised learning techniques.



Miriam Wairimu Maina
Data Science & AI

STOCK PRICE PREDICTION USING SUPERVISED LEARNING WITH LSTM AND TECHNICAL INDICATORS

This project aims to develop a supervised learning model using Long Short-Term Memory (LSTM) networks to forecast future stock prices based on historical market data and technical indicators. The model is designed to assist traders and investors in making informed buy, sell, or hold decisions.



Josphine Wagatwe Maina
Data Science & AI

A MODEL FOR PREDICTING WHICH CUSTOMERS ARE LIKELY TO LEAVE ONLINE SUBSCRIPTION SERVICE.

This project predicts which customers are likely to unsubscribe from an online service. It helps businesses identify at-risk users early so they can take action to reduce churn and improve customer retention. For example, a streaming service could use the model to flag users showing signs of disengagement and offer them personalized incentives to stay subscribed.

Dedan Kimathi University of Technology



Victoria Ndeg
Data Science & AI

CARBON FOOTPRINT PREDICTION USING SUPERVISED LEARNING TECHNIQUES

Leveraging data science and AI techniques, this project develops a predictive model to forecast CO₂ emission trends specifically within Kenya. The goal is to provide essential, localized, data-driven insights that address the current gap in tools for understanding Kenya's future carbon trajectory.



Violet Wambui Muiruri
Data Science & AI

BRAIN TUMOR DETECTION USING DEEP LEARNING

This project improves the diagnosis of medical images, specifically brain MRI images which may be slow and prone to error if done manually. The CNN-based model analyses the MRI images, detects and identifies the location of the brain tumor then classifies it on basis of the type and malignancy. Early diagnosis of brain tumors is crucial as it increases the survival potential of the patient hence the need for this model.



Evans Kararu
Data Science & AI

USING AI FOR VISUAL INSPECTION OF PHONE SCREEN DEFECTS

This project aims to assist refurbished phone importers in identifying phone screen defects thus saving on labor costs.



Margaret Wangari Mburu
Data Science & AI

CHERRYGRADE: COFFEE CHERRY RIPENESS CLASSIFICATION TO REDUCE HARVEST LOSSES FOR NYERI'S SMALLHOLDER FARMERS.

CherryGrade is a computer vision tool that uses object detection to classify coffee cherry ripeness from images. Built on YOLOv8n and deployed via a Flask API, it supports learning, research, and potential integration into agricultural robotics or automated sorting systems.



Mary Wanjiku Macharia
Data Science & AI

SYMPTOM ANALYSIS FOR HEALTH CONDITION INSIGHTS USING UNSUPERVISED MACHINE LEARNING

This project explores the use of unsupervised machine learning techniques, such as clustering, to analyze patterns in symptom data and uncover hidden health condition insights. The aim is to support early detection and diagnosis by grouping similar symptoms and identifying potential health conditions without the need for labeled datasets.



Lillian Mwhaki Muchoki
Data Science & AI

PREDICTIVE MODEL FOR ASSESSING WATER CONTAMINATION RISK USING SUPERVISED LEARNING

This project predicts the risk of water contamination using supervised learning techniques, specifically Random Forest and Logistic Regression. By analyzing key factors such as water quality indicators, environmental conditions eg rainfall, and infrastructure variables the model classifies water sources as either contaminated or uncontaminated. The ultimate goal is to enable real-time, data-driven decisions during floods and public health emergencies.

Dedan Kimathi University of Technology



Alvin Ondieki
Data Science & AI

MULTIMODAL DEEP LEARNING FOR ALZHEIMER'S DISEASE DETECTION

The project utilized multimodal deep learning to classify stages of Alzheimer's disease by integrating neuroimages. Leveraging hybrid CNN-Transformer architectures, the system was trained on a diverse dataset to capture complex correlations across modalities offering a scalable tool for early, accurate diagnosis and clinical decision support.



Kiplagat Gladys Cherotich
Data Science & AI

SMART DYNAMIC AGRICULTURAL LAND SUITABILITY AND AI-DRIVEN MULTI-CROP RECOMMENDATION SYSTEM FOR UASIN GISHU COUNTY

This project focuses on helping farmers in choosing the right crops for their land using satellite data, GIS tools, data science and artificial intelligence. By analyzing environmental factors like rainfall, soil, vegetation, and elevation, the system will map out how suitable different areas are for farming. Then, using machine learning, it will recommend the best crops to grow in each location. The goal is to boost farm productivity, reduce crop failure, and support better, data-driven decisions for smallholder farmers.



Fiona Njeri Kamau
Data Science & AI

PREDICTING HEALTH INSURANCE UTILIZATION USING SUPERVISED LEARNING

This project used machine learning to predict whether individuals utilized health insurance or attended routine checkups based on demographic and socioeconomic characteristics. The data, collected by SAFRA Data School through online surveys in Kenya, included features such as age, income, employment status, and location. Models like Random Forest, KNN, and Logistic Regression were trained and evaluated to identify patterns in healthcare access. The results provided actionable insights to help policymakers and NGOs better target underserved populations.



Christopher Mwangi Mugwimi
Data Science & AI

LUNG DISEASES DETECTION FROM CHEST X-RAY IMAGES USING CNN

This system analyzes chest X-ray images and determines whether a patient has Normal lungs or is infected with Pneumonia, Tuberculosis or COVID-19. The goal is to develop a reliable, AI-driven tool that can assist in early disease detection, reducing diagnosis time and improving healthcare outcomes.



Janet Anyona Alwanga
Data Science & AI

APPAREL SIZE PREDICTION FOR KENYAN E-COMMERCE USING SUPERVISED LEARNING

This project focuses on building a predictive model that recommends the most appropriate clothing size (e.g., XS, S, M, L, XL) for users based on their physical attributes such as height, weight, age, gender, bust, hips, and chest measurements. The goal is to enhance the online shopping experience by reducing size mismatches and returns—one of the biggest challenges in e-commerce fashion.



Rotich Dennis Kiplangat
Data Science & AI

PREDICTIVE MODELLING FOR MEDICAL INSURANCE PREMIUM PRICING

The objective of the project was to build a ML model that accurately predicts insurance premiums based on customer demographics, behaviour and risk factors. The approach leveraged supervised learning techniques to find patterns in historical data that correlate with premium amounts.

Dedan Kimathi University of Technology



Sharon Chelangat
Data Science & AI

A PREDICTIVE MODEL FOR BANK CUSTOMER CHURN

The goal of this project was to predict customer churn in the banking sector, enabling financial institutions to identify at-risk customers. A Random Forest Classifier was used to analyze the Bank Customer Churn

Dataset, focusing on key features such as age, estimated salary, credit score, balance, and the number of products. A Flask web application was developed to facilitate real-time predictions through customer data input.



Francis Mwangi Muthengi
Data Science & AI

BANKNOTE RECOGNITION AND VOICE ASSISTANT FOR KENYAN CURRENCY

This project is an assistive technology system designed to recognize Kenyan banknotes and provide real-time voice feedback to users, especially targeting the visually impaired. The system uses computer vision and deep learning to identify the denomination of banknotes from images or a live camera feed and announces the value using a text-to-speech engine.



Brian Mutwiri Nganga
Data Science & AI

WASTE CLASSIFICATION USING CONVOLUTIONARY NEURAL NETWORKS

This project distinguishes between recyclable and non-recyclable waste to support proper disposal and recycling efforts. It is integrated into a mobile app, allowing users to take a photo of an item and instantly know how to sort it. The solution promotes environmental sustainability through smart waste management. In the future, it is set to be used in smart bins and integrated with other IoT devices for automated waste sorting.



Rose Muthoni Muiruri
Data Science & AI

FRUITS AND VEGETABLES IDENTIFIER USING CNN

This project when deployed will identify images of different fruits and vegetables into their respective classes. Automating the classification process provides a scalable and reliable solution that improves sorting and ensures consistent quality in large-scale agricultural operations.



Lucky Kitonyi
Data Science & AI

REPLYMATE: A WHATSAPP SILENT HELPER POWERED BY GPT-4 AND HYBRID NLP MODELS

ReplyMate AI, an intelligent system powered by OpenAI's GPT-4 and advanced hybrid Natural Language Processing (NLP) models. Designed to automate, personalize, and streamline WhatsApp replies across multiple languages and emojis effortlessly.



Fridah karimi Murage
Data Science & AI

MACHINE LEARNING DRIVEN CLIMATE ADAPTATION STRATEGIES FOR AGRICULTURE

This project aims to develop and implement machine learning-driven climate adaptation strategies to enhance agricultural resilience and productivity for farmers in Kenya. By leveraging historical and real-time climate data, soil health information, and crop yield data, we will build predictive models to provide actionable insights for farmers.

Dedan Kimathi University of Technology



Jane Auma Ochieng
Data Science & AI

LOAN DEFAULT PREDICTION FOR SACCOS/MFIS TO MANAGE RISK USING SUPERVISED LEARNING TECHNIQUES

This project aims to train a machine learning model that will predict whether a loaner will default or not depending on his/her information details.



Brian Mwangi Kariuki
Data Science & AI

NAIROBI RESIDENTIAL HOUSE PRICE PREDICTION USING SUPERVISED LEARNING

This project aims to develop a machine learning model to predict residential house prices in Nairobi based on key property features. Using a synthetic dataset that reflects current market trends and pricing patterns, the model will help estimate fair property values, supporting buyers, sellers, and real estate professionals in making data-driven decisions.



Winfred Mumbi Ngure
Data Science & AI

MULTI-CLASS OBESITY LEVEL PREDICTION USING DEEP LEARNING

This research examines multi-class obesity level prediction through deep learning techniques, analyzing health and lifestyle factors to classify individuals into distinct obesity categories. By leveraging existing deep learning algorithms, this project demonstrates how artificial intelligence can enhance obesity assessment and management. The implementation provides healthcare professionals with efficient screening capabilities while offering personalized recommendations for diet, physical activity, and lifestyle modifications. This approach aims to improve early intervention strategies, support more targeted treatment plans, and ultimately enhance health outcomes for individuals at various points along the obesity spectrum.



James Makomele Ebitonyi
Data Science & AI

MENTAL HEALTH DETECTOR FROM TWEETS USING SUPERVISED LEARNING TECHNIQUES

The project aims to develop a model that detects and classifies mental health distress from tweets.



Zipporah Kavutha Mutua
Data Science & AI

SMART SHOPPING CART

The Smart Shopping Cart is an intelligent retail solution designed to enhance the in-store shopping experience using IoT and machine learning. Shoppers scan items using RFID on the cart, which fetches product info, updates inventory, awards loyalty points, and generates receipts. It includes an integrated payment system, allowing customers to pay directly from the cart—eliminating checkout queues. The system uses a Python backend, Streamlit UI, and Flask API to simulate real-time supermarket operations and provide smart product recommendations.

Alumni Corner

OUK Students

Daniel Otieno Masudi – Embu County

The KIEP-SKIES program was a transformative experience that introduced him to the realities of the tech world and helped him align his learning with job market demands. He gained practical knowledge in programming, data analysis and visualization, cybersecurity practices, and also sharpened his communication and pitching abilities. Through teamwork and entrepreneurship training, Daniel developed a well-rounded skillset that gave him clarity on career opportunities in the tech space and confidence to navigate them.

Festus Kyalo Mutua – Kitui County

The KIEP-SKIES program was a vital starting point that provided foundational exposure to programming, cybersecurity, and data science. He appreciated how the program built both his technical knowledge and personal growth through collaboration, communication, and entrepreneurial thinking. The experience helped him cultivate skills in cybersecurity, teamwork, public speaking, and innovation—preparing him to explore further learning opportunities and begin contributing meaningfully in the tech space.

Robert Makau Kimuyu – Nairobi County

Robert found the KIEP-SKIES program to be a valuable stepping stone that introduced him to cybersecurity, software engineering, and data management. His learning journey was enhanced by modules on data science, which helped him build confidence in handling and interpreting data. Along the way, he also developed essential soft skills such as communication, teamwork, and an entrepreneurial mindset—equipping him with the versatility to engage more actively and effectively in the tech community.

Alumni Corner

JKUAT Students

SYLVIA ONYANGO

Before the KIEP-SKIES program, selling bed sheets was simply how I made ends meet. The program helped me realize it wasn't my passion; I was just staying afloat. Now, I understand that any future business I start must be driven by passion, be sustainable, and address a real need in my community. I'm currently in the early stages of developing my business idea, exploring different possibilities while I work to save the necessary funds for its launch.



BILL OKOTH

The Rapid Tech Skills Cohort 1 was perhaps one of the best-crafted ideas and tech bootcamps in this country. It brought together experts from diverse career backgrounds — all united by a shared goal: building a successful digital future.

Through this program, I gained valuable hands-on skills in software engineering, cybersecurity, and data science, with a strong focus on cybersecurity. It wasn't just theory — the training was practical and immediately applicable.

Since then, I've applied these skills to deliver a wide range of services in technology and system administration. The experience has truly helped me make meaningful contributions in the field. A big thank you to JKUAT, JHub Africa, and KIEP-SKIES for this incredible opportunity. I'm deeply grateful for the knowledge, connections, and career boost it has given me.



DARRYL ALLOO

I was part of the first KIEP-SKIES Rapid Tech Skills Program cohort, which ran for four months at JKUAT and was facilitated by JHUB Africa. Before joining, I had some exposure to cloud computing but lacked clarity about pursuing a tech career. The program changed that—it introduced me to data science, AI, cybersecurity, and software engineering, helping me discover my passion for software engineering. Since then, I've freelanced for clients locally and abroad, and now run my own web design and development consultancy. The program was a key stepping stone, sharpening my skills and boosting my confidence to thrive in the global tech space.



Alumni Corner

JKUAT Students



Maron Murangiri

My name is Maron Murangiri, a proud beneficiary of the KIEP-SKIES Program, Cohort One, held at JKUAT. This transformative experience reshaped my perspective on technology, not just as a career path, but as a tool for driving industrialization, creating jobs, and reducing poverty across Africa. The program taught me that innovation is for everyone and that local challenges can be solved through context-driven tech solutions. While at JKUAT, my team began developing a home-based care project using mobile apps, AI, and IoT to support healthcare practitioners and patients. I'm grateful to the World Bank, KIEP-SKIES, JKUAT, and the JHUB team for making this possible.

Kenyatta University Students

Nicolette Kurwa Wafula – Data Science Track

Participating in the KIEP-SKIES Rapid Tech Skills Program was a transformative journey. The Data Science track equipped me with practical skills in Python, machine learning, and data analysis, while also deepening my appreciation for how data can drive real-world solutions. The mentorship and collaborative environment boosted my confidence and helped me navigate the tech space with clarity and ambition.

Kelvin Kipchirchir – Cybersecurity Track

I'm truly grateful to the RAPID-SKIES Program for the opportunity to grow from a beginner into a confident cybersecurity practitioner. Focusing deeply on one track at a time, supported by knowledgeable instructors like Mr. Chege, made the experience thorough and enriching. From threat detection to digital forensics, the program gave me real-world skills, professional guidance, and a strong network that has reshaped my career path.

Alumni Corner

Victory Nthenya Karoro – Data Science & AI Track

Despite having no background in IT, joining the KIEP-SKIES Program turned out to be an eye-opening experience. I gained valuable skills in machine learning and data science, built strong networks, and saw new possibilities in the tech world. The patient, passionate instructors made the learning process smooth and inspiring. I now feel empowered to explore the future with confidence and curiosity.

Caleb Ndung'u Muturi – Software Engineering Track

The KIEP-SKIES Program transformed my career path completely. With no formal tech background, I was able to gain robust skills in software and mobile development, entrepreneurship, and critical thinking. The experience not only sharpened my technical ability but also opened my mind to how tech can solve local challenges. I'm now more confident, connected, and ready to contribute meaningfully to Kenya's digital future.

MNUC Students



Darius Kibagendi

From Training to Transformation: My Journey Through KIEP-SKIES

I am grateful for the life-changing opportunity that has shaped both my career and personal development. Sponsored by the World Bank and implemented through Mama Ngina University College, the program provided me with hands-on training in software engineering, cybersecurity, data science, soft skills, and entrepreneurship. The intensive and immersive training not only equipped me with technical and business skills but also instilled in me the confidence to dream bigger and take bold steps in my career. Today, I am a freelance software engineer, using my skills to deliver real-world solutions while also pursuing further education at KSTVET, where I am training to become an ICT Technical Trainer. This next phase of my journey reflects my passion to give back by empowering others with the knowledge and skills that KIEP-SKIES gave me.

The support, mentorship, and resources offered by the KIEP-SKIES initiative are a beacon of hope for youth across Kenya. I am living proof that with the right training and support, young Kenyans can lead the future of technology and innovation. Thank you, KIEP-SKIES, World Bank, and Mama Ngina University College, for believing in us and investing in our future.

Alumni Corner

Lilian Kinyua

Meet Lilian Kinyua alumni of KIEP-SKIES rapid tech skills from Mama Ngina University College and the visionary founder of Taka fleet enterprise! Being part of the program was a place to unleash my potential, it empowered me to unlock the future. The program pushed me out of my comfort zone, built my confidence as an entrepreneur, and showed me the power of combining Data science, cybersecurity, software engineering and critical soft skills in solving systematic challenges. Hence, coming up with an innovative solution that contributes to the achievement of the circular economy was a great success. Success is the sum of small efforts repeated day in and day out.

The facilitators always emphasized disruptive thinking innovations that can stand a chance of grant award. And it didn't stop there, I have the privilege of participating in the African Feminist Change Makers Program 2025 cohort. Being chosen as one of the 35 extraordinary women from 12 African countries is something I am extremely proud of, the ICT skills earned at KIEP_SKIES. As part of the SPARK Project, supported by GIZ and implemented by Sustainet Group Ltd and FIDA Kenya. It amplifies feminist leadership by transforming organizational cultures, fostering innovation, and advocating for inclusive digital economies to break barriers and drive social impact where it's needed most. My journey from overcoming gender biases to leading digital transformation initiatives underscores my resilience and commitment to empowering others.



Kibabii Students

Faith Rutto

As a pharmacy professional with over a decade of experience, I have always been passionate about improving healthcare delivery. Enrolling in the KIEP-SKIES program transformed that passion into action. Through intensive training in data science, software engineering, cybersecurity, and soft skills, I gained the technical expertise to bridge the gap between healthcare and technology.

Over time, after I completed the program, I have been making monumental progress, applying the skills learned to real-world problems. Some of my achievements include:

- I Designed and prototyped health-tech solutions, including medication error reporting tools and AI-powered patient triage systems, leveraging my dual background in pharmacy and technology.
- I Strengthened leadership, problem-solving, project management, and communication skills to effectively collaborate across interdisciplinary teams.
- I Successfully transitioned from a pure pharmacy role to a hybrid professional profile — a healthcare technologist and innovator — ready to impact digital health transformation initiatives globally.
- Today, I am uniquely positioned at the intersection of pharmacy and tech, developing innovative solutions that enhance patient safety, streamline healthcare processes, and drive data-driven decision-making. This program did not just equip me with skills — it empowered me to re imagine the future of healthcare.



Alumni Corner

Assumpta Nakibi

One day, as I sat in the department office, feeling trapped and bored by the monotony of my job, I realized I had hit a wall. I wasn't just uninspired; I was deeply unfulfilled. My work lacked the excitement I craved, and I longed for a career that would challenge me and allow me to make a greater impact. That's when I stumbled upon an advertisement for a World Bank scholarship. Despite my financial constraints and the passing of 11 years since my graduation with a BSc in Computer Science, I decided to take a chance and apply. It wasn't a leap of faith but rather a hesitant step toward an uncertain future. Months later, I received a call about my application—I had nearly forgotten about it, but something inside me sparked. I chose Kibabii University, and though I let the admission letter sit idle, a class representative's call on the last day of registration nudged me to act. I registered, determined not to let this opportunity slip away. Walking into a classroom filled with Gen Z students as a millennial made me feel like an ancestor, but I was determined.

The stipend provided by the scholarship allowed me to purchase a laptop, which I paid off gradually. In the cybersecurity program, a visit to the forensics lab ignited a passion I hadn't known I had. In that moment, I knew I had found my path. I applied for a master's program in forensic analysis, but initial setbacks didn't deter me. When Kibabii couldn't form a class, I sought alternatives, and through a friend's advice, I found the Open University of Kenya. By March, I had begun my studies, rolling with the big boys. I am deeply grateful to the SKIES-KIEP World Bank Scholarship for providing the push I needed. It was the catalyst that set my career ablaze. My pastor once said, "In this life, you need a man who can hold your hand and open doors for you." For me, that 'man' is the SKIES-KIEP initiative. I look forward to becoming the most sought-after forensic analyst in Kenya and beyond.

I hope the World Bank continues to support me, opening doors to endless opportunities. My journey is just beginning, and I am ready to make my mark.

TUM Students

Daniel Samando Wambua

Since graduating from the SKIES program, I have been pursuing cyber security studies and working as a Customer Research Manager for Zizi Afrique Foundation. In this role, I apply my analytical skills to improve our outreach strategies. I am also a tech volunteer at Swahilipot Hub Foundation, collaborating with others in the tech community on various projects. The SKIES program equipped me with the technical and soft skills that have been crucial in advancing my career, and I'm excited about the future in the tech field."

Alumni Corner

Gad Ongoro

Since graduating from the SKIES Rapid Tech Skills program, I've made significant strides in my tech career. I currently serve as a Backend Developer (SQL & API) at Evenness, contributing to AI-driven, accessibility-focused platforms. Alongside my full-time role, I also work remotely as a freelance software developer on Fiverr. The hands-on training, mentorship, and industry exposure I received through the SKIES program were instrumental in equipping me for both corporate and freelance success."

Benjamin Taura

Since graduation, I have attended events such as the Blue Invest hosted by Sotehub, focusing on the blue economy. I also launched my startup company, Wave Technologies, offering high-quality tech services. Moreover, I've had the opportunity to lecture on the skills I acquired during the program at the college level. The soft skills I developed through SKIES have been life-changing, helping me approach problems from different perspectives and find the best solutions."

Edwin Omari Nyambane

Since graduating from the SKIES program, I have advanced both professionally and academically. I currently work as a Data Analyst with Bramoleyness Limited and started my own business as a freelancer offering services in data science, financial analytics, and tech. I'm also a participant in the World Bank Government Analytics Fellowship, an initiative aimed at enhancing data-driven governance. These milestones reflect the solid foundation SKIES laid for my career and academic growth."

Alumni Corner

DeKUT Students

Samuel Mwangi- Rapid Tech Skills Alumni

Through the World Bank-funded SKIES program, I enrolled in a Rapid Tech Skills boot camp that offered hands-on training in cybersecurity, software development, data science, and soft skills. It was there that I discovered a deep passion for cybersecurity and software development, so much so that I began pursuing additional certifications to strengthen my knowledge. For the first time, I had a clear sense of direction.

SKIES didn't just equip me with technical skills; it gave me confidence and purpose. After completing the program, I began job hunting, a journey marked by countless applications, interviews, and rejections. My first major opportunity came at a healthcare outsourcing and technology firm, where I aspired to join their IT department.

Eventually, my breakthrough came. I landed a role at a major airline in Kenya, working at the heart of its IT operations, supporting critical systems and infrastructure. It was an incredible milestone in my career.

The SKIES program was my launchpad. It turned uncertainty into opportunity and potential into purpose. It didn't just shape my skills. It shaped my future.

Thank you KIEP-SKIES Team

Appreciation

We extend our heartfelt gratitude to the dedicated team members who have worked tirelessly on the KIEP SKIES project. Your unwavering commitment and collaborative spirit have been instrumental in bringing this initiative to life.

KIEP SKIES Contract Implementation Team

-  Philliph Maitha - Kiep Project Coordinator
-  John Muinami- Project Manager
-  Ruth Wanyonyi- Project Accountant
-  Caroline Kung'u- Chairperson Contract Implementation Team
-  Isaack Kemei- Secretary Contract Implementation Team
-  Cecilia Mwangi- KIEP Innovation Ecosystem Manager
-  Lilian Moraa- SDI Legal- Contract Implementation Team Member
-  Joan Chemitei - Contract Implementation Team Member
-  Calvin Otieno - Contract Implementation Team Member
-  Tony Mutemi- Contract Implementation Team Member

SKIES PROJECT TEAM

-  David Cheboryot- Skies Team Leader
-  Stephen Njoroge-Director Spineberg- E4Impact JV
-  Dr. Bernadatte Mutinda- Strategic Business Specialist
-  James Thuo- Funds Disbursement Manager
-  Linet Mariita- Monitoring and Evaluation Specialist
-  Isabella Tenai- Project Administrator
-  Nancy Wangari- Procurement Officer
-  Njeri Kamau- Data expert
-  Gideon Gachoki- Communication Specialist

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YOU MADE IT!

Congratulations



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