

Action Plan

Team TEMPLATE

Your
Logo

About our team

Team presentation

Introduce your team here. Who is in, what do you do as a professional, what are your professional dreams?



best practices & challenges



Best Practices

- case 1 + description
- case 2 + description
- ...



Challenges

- Challenge + description
- Challenge + description
- ...

Skills & Projects



Skills

- case 1 + description
- case 2 + description
- ...



Projects

- Challenge + description
- Challenge + description
- ...

Collaboration opportunities

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Step 1

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Step 2

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Step 3

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Step 4

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Add a quote of your team you want to share

Conclusion

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ACTION PLAN

Team 4

About our team

Team presentation

Introduce your team here. Who is in, what do you do as a professional, what are your professional dreams?

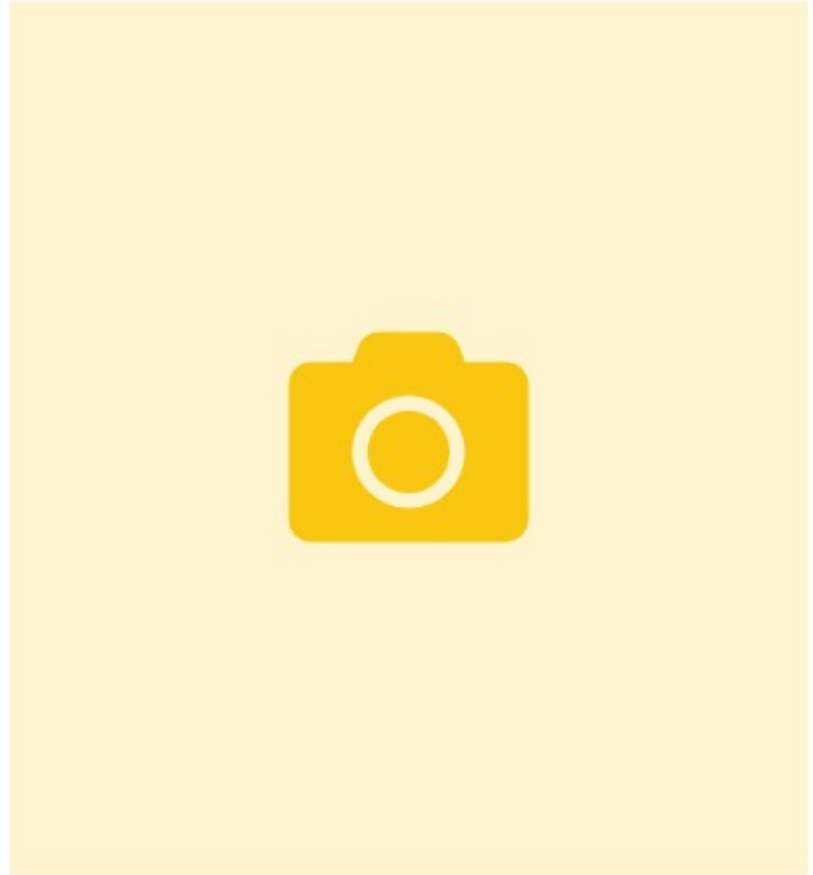
Akram Ali Omar - Instructor - Researcher in AI for Community Development

Omar Haji - Lecturer - IoT and AI researcher

Ali Abdulla - Instructor - Expert Renewable energy monitoring

Hussein Issa - Software Developer - Data scientist

Ali Kombo - Instructor - AI expert



best

Best P

- IoT a
- AI p
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best practices & challenges



Best Practices

- IoT and AI projects: developing IoT and AI project such as Smart Agriculture, Banana Disease Detection using AI, Training and Certification program in field of AI and IoT
-



Challenges

- Limited infrastructure and equipment: Limited accessibility and affordability of hardware and machines for AI
- Limited availability and accessibility of local data
- limited skills in AI and cloud computing

Skills & Projects



Skills

- AIoT and IIoT - Artificial IoT and Industry IoT.
- Edge Computing - Skills to develop AI-Embedded device that will make prediction at device level
- Patenting and commercialization:



Projects

- Multidisciplinary research/Projects
- Industry involvement in program development
- Internships and Exchange Programs

Collaboration opportunities

Mobility Programs and Exchange Programs
Industry involvement in multidisciplinary
research



Step 1

MoU



Step 2

Project Proposal writeup



Step 3

Capacity Building



Step 4

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Conclusion

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Action Plan

Team 3 TEMPLATE

Your
Logo

About our team

Team presentation

Introduce your team here. Who is in, what do you do as a professional, what are your professional dreams?

1. Ian Bethuel - Programmer - Data Scientist
2. Andrew Ezekiel - Entrepreneur (tendampya.com)
3. Esther Amos Chakoma - ICT Officer(Programmer) - Data Scientist
4. Mwanahawa Yasin - Civil engineer Student -Structural Engineer
5. Editha Temu - ICT Officer- Data Scientist



best practices & challenges



Best Practices

- Education

An AI system based on educational sector to help in then assessment of final examination.

- Weather Prediction

An intelligent system to predict with consistent accuracy on the weather



Challenges

- Loss of jobs
- loss of employment vendors for marking
-
- expensive equipment for the prediction of the weather
- Knowledge gap - Mostly technology gap

Skills & Projects



Skills

- To better organise and store data in the early stages of any company for it to benefit for the future.
- lifelong learning- that it should not only be for individuals but should be organised by the company or organisation.
- Curriculum review or update in the sector of education regular curriculum reviews should be done in order to keep up with with the ever changing technologies



Projects

- Collaboration between universities and private sector to promote training that are inline with what is needed in the market.
- work with Experts who have been working in the field to teach in the universities

Collaboration opportunities

it will be great to have a continuous collaborative with the experts that have given us training here at ARDHI, so as we can present our ongoing projects and get technical support



Step 1

Identify and Formalize the Experts Involvement



Step 2

create a communication platform.Organize Regular Meetings.particularly online



Step 3

Document Progress and Feedback.



Step 4

Expand the Network



When minds come together, they create not just ideas, but innovations that shape the future

all in all, This training was eye opening and gave us insight on alot of opportunities for our careers

Conclusion

Action Plan

Team 1

Your Logo

About our team

Team presentation

Introduce your team here. Who is in, what do you do as a professional, what are your professional dreams?

We're Team 1, composed of 5 people:

Joan Urima - Software Developer at CRDB Bank PLC, Dream is to become a Machine Learning Engineer

Amour Hassan - Instructor at KIST, Dream is to remain an instructor

Abdulrahman Mohamed - Instructor at KIST, Dream is to become an IoT professional

Andogah Geoffrey - Teacher at Muni University, Dream is to become a professor and a businessman

Sharon Masasi - Data Analyst at CRDB Bank PLC, Dream is to become a Data Science and AI Specialist



best practices & challenges



Best Practices

- Water monitoring app

A mobile application utilizing IoT and Machine learning for detecting anomalies in water to ensure optimum levels for marine life in the water

- Chumba baridi

An AI and IoT project to collect data on fruit top be used for analysis and fruit longevity prediction

- Pest detection and monitoring

An AI and IoT project for detecting what pests have damaged the crops so as to take proper measures to protect and recommend treatment plans



Challenges

- AI infrastructure is scarce in African countries
- Human knowledge is a challenge, most people lack AI & ML skills
- Data acquisition is a challenge, access to data is limited due to security reasons, or data is not even present

Skills & Projects



Skills

- Model deployment skills
- Bootcamp for an AI & ML ideation to realization
- Presentation, critical thinking and customer engagement skills
- Regarding lifelong learning, we agree that it's important and could be achieved by self-initiatives to learn and supported by institutes and awareness should be spread

Collaboration opportunities

- Collaboration between east African universities and delivering joint certifications to the candidates e.g., KIST and Muni
- Industries and universities collaborating on key people from organizations to partake in mentoring students and long-term internship programs for students to get hands-on experience



With great power comes great responsibility

Conclusion

AI and ML has is a very wide playground where we can apply our creativity and thus bring a positive change within ourselves and others.

Action Plan

Team 5

Your
Logo

About our team

Team presentation

Here is group number five(3) with 3 members namely;
Gideon Marandu (ICT expert)
Michael Mavura (Geospatial expert)
Engelbert Wangabo (Geospatial expert)
Both are in Ardhi university and professional dream is to intergrate the Geospatial and ICT in solving the real world problems facing community (problem solver)



best practices & challenges



Best Practices

- Crop yield monitoring (Agriculture)
- Topographical Mapping
- Climate change prediction



Challenges

- Information /data dissemination esp. people without smart phones eg farmers
- Capacity building (end user)
- Solution deployment (Web application)

Skills & Projects



Skills

- Proposal writing (RFP)
- Pitching skills
- Negotiation skills



Projects

-
- ...

Collaboration opportunities

Universities and Industry



Research collaboration

Aligning research goals and market/industry needs to focus on solving the real world



Developing the technologies(Systems)

Through developing technologies or different systems in order to solve different problems the society facing



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"Difficulty is what makes up the genius' -
Nassim Nicholas Taleb

Conclusion

inconclusively, The AI and IoT have great impact in providing valuable different solutions to the societal problems.

Action Plan

team 2

About our team

Team presentation

Team no 2.

1. Ntahondi Stivin H (A civil engineer)
2. Maryam Mjawir (IOT researcher-KIST)
3. Khamis Hussen (Expert in multimedia KIST)
4. Adi Juma Faki (Data science and AI Researcher)
5. Mohammed Khatib Ali (Network and Systems administrator)
6. Omary Ali (Expert in multimedia KIST)



best practices & challenges



Best Practices

- Integrations of IOT and AI for detection of sea water intrusion in farms areas
- Use of DL for soil testing for road constructions
- Health monitoring of crops growth using AI
- Monitoring of customers behavior in malls and supermarkets using deep learning



Challenges

- Lack of computing powerfully computers for training models
- Lack of knowledge about AI and how to deploy them
- Lack of additional hardware supporting data extractions for ai (sensors, cameras, etc)

Skills & Projects



Skills

- Programming skills
- Technical skills
- Cloud computing
- Virtual reality (VR)
- Blockchain
- Augmented reality



Projects

- Exchange programs
- How to link the backend ai models and users interfaces
- Building good relationship (Collaboration) between different developer groups with different knowledges about AI.
- Spreading the AI knowledges through online communities.

Collaboration opportunities

- 1.Exchange programs
- 2.Capacity building for technical staff
- 3.Scholarship and fellowship
- 4.Seminar and workshops
- 5.MOU between universities



Working in a team is the best thing ever

AI in our country is one of the technology which can lead economy growth, and it can facilitate high productivity

Conclusion

Action Plan

Team 6

Your
Logo

About our team

Team presentation

Frank Biita - Software Developer

Mussa Bahati - Software Developer

Godfrey Enosh - Software Developer & Data Scientist

Zahraa Said Saleh - Information Systems Manager

Salha Omar Haji - Software Developer



best practices & challenges



Best Practices

- Drone Irrigation Schemes
- AI in air quality control
- Pest and infection detect in agriculture
- Product recommendation



Challenges

- Unavailability of data
- Insufficient computation resources
- Commercialization of research

Skills

Skills

- Big data management
- Data Security and Privacy
- Domain specific Experts

additional training

- Data analysis and management
- Data privacy & security

Updates

- Hubs
- Communities

Collaboration opportunities

Universities can work together to develop projects

Challenges:
aligning academic timelines
ownership
scalability



Research Partnerships

Universities conduct foundational research, while industries provide funding, infrastructure



Commercialization of Researchs

transfer their research outcomes to industries through licensing agreements, patents, and spin-off companies



Research Hubs

UResearch Hubs and startup incubators to drive innovation



AI and Machine Learning offer immense potential to transform key sectors in Tanzania, driving innovation and improving lives. The skills we're gaining will help us create solutions that address local challenges, but ongoing learning and collaboration are essential.

A heartfelt thank you to the team for sharing your knowledge and expertise. Your contribution will have a lasting impact on our community and help us build a brighter, more technologically advanced future. Thank you!