TinyML Progress

Ethiopia
Introduction to Marco

Shipping Donated Device

Meeting with Marco

Device Arrive to AAU

Today

Feb 2022

April 2022

May-March 2022-2023

July 2023

Bahir Dar University
Ambo University
Addis Ababa University

Haramaya University
Gonder University
Addis Ababa University

More device needed
Sustainability Plan
Communications & Collaboration
Tailored to Domain Specific teaching Materials needed

Materials needed

Tailored to Domain Specific teaching Materials needed

Communications & Collaboration

Sustainability Plan

More device needed
Few Pictures from different Trainings
Training style

• Adopted to fit the situation
  • 2 or 3 days workshop
  • Tailored to the domain specific environments
    ➢ Bioinformatics
    ➢ Security & Privacy
    ➢ Agriculture & Environment
    ➢ Health

• Examples are taken from Ethiopian related projects
  ➢ 4-KLabs projects (WWW.4kbots.com)
  ➢ https://www.facebook.com/4K4KLABS/
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Hackathon From 4K Labs

Announcement
4K Labs is delighted to announce that we will be hosting our first hackathon event on 20th April 2023. If you are interested in programming, robotics, and more, this is your chance to participate. The hackathon will be held between 10:00 AM and 6:00 PM. You must submit all your work before the deadline.

Prizes
- A cash prize of $1,000
- A hardware kit worth $500
- A custom t-shirt and mug

Requirements
- Open to all participants
- A working prototype or proof of concept

Deadline: April 20, 2023

For more information, visit: https://4k-labs.com/hackathon
WELCOME TO ICT4DA-2023
Digital Innovation for Sustainable and Inclusive Economic Development

ICT4DA-2023
The 5th International Conference on Information and Communication Technology for Development for Africa (ICT4DA2023), will take place in Bahir Dar, Ethiopia on October 26 – 28, 2023. ICT4DA2023 aims to bring together researchers, engineers, developers, and practitioners from the academia and the industry to present and discuss their research work in the area of ICT for Development. This conference seeks to facilitate the transfer of experience, adaptation of methods, and where possible, foster collaboration among different groups.

Important Dates
- Paper Submission deadline: July 20, 2023
- Acceptance Notification: August 15, 2023
- Camera Ready Deadline: September 15, 2023
Constraints

• Budget constraints
  ➢ Only one instructor and one mentor is providing all course content
• Not Enough time for participants to practice on the device
• Pre requisites not fulfilled for domain specific participants
Recommendations

• Detailed short term training for trainers
  ➢ Summer School
  ➢ Experience sharing sessions
• Extended knowledge that is needed in the area
• Incorporate the TinyML course in the curriculum
• Sustainability plan
**Future Plan**

- Organize regional and International Conferences in Ethiopia
  - TinyML Conference for Africa
- Collaborate with ICT4D conferences in Africa and ARM, Ethiopian AI Institute etc...
- Summer schools for trainers
- TinyML Hackathon in Ethiopia and Africa
  - Award the best 3 projects
- Extend domain specific trainings to benefit multi disciplinary collaboration
Sustainability of TinyML

- Teaching Material Preparation
- Accessibility of Devices
- Success of TinyML Initiative
- Collaboration
- Platform Software Accessibility
THANK YOU
MERCI
DANKE