



In partnership  
with



UNIVERSITY OF NAIROBI

## East-African School for Young Researchers on Advanced Machine Learning Techniques

9–22 Jul 2025

University of Nairobi, Chiromo Campus

Africa/Nairobi timezone

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# EASY-ML (2025) Participants



Welcome

Glad you're here!

# About the Workshop

- **2-Week Intensive Workshop:** Hosted by the University of Nairobi.
- **Goal: Equip young researchers in East Africa with advanced ML skills.**
- **Learn in-demand (machine learning) skills:**
  - Ethics in AI
  - Neural Networks, CNNs
  - Dimensionality Reduction
  - Unsupervised Learning
  - Transfer Learning
- **Focus on Practical Application:** Real-world examples from your research work.
- **Hands-on Learning:** Gain practical experience through interactive exercises.


# Program Highlights

- **Thursday, July 10<sup>th</sup>:** Official Opening Ceremony (9:30 – 10.30 AM)
- **Sunday, July 13<sup>th</sup>:** Excursion Day at Hell's Gate National Park, Naivasha
- **Mon & Tue, July 21-22:** Participants-Led Projects
- **Mon evening, July 21<sup>st</sup>:** Gala Dinner
- **Daily Intensive Sessions:** Lectures + practicals
- **Evening Sessions:** Socials, poster presentations, Invited Guest Presentations
- **All sessions held at:** Postgraduate Computer Lab
- **Catering Services:** Arziki, UNES

## 5 Min (Ice Breaker)

*“Know Your Cohort: The EASY-ML Diversity Puzzle”*

### Stand Up If...

1.  Let's explore the amazing diversity in this room!
2.  When you hear a statement that applies to you — stand up (**briefly and then take a seat when I move to the next question**)
3.  Look around. Learn something new about your peers!

*“Look around. This is your **TEAM**. Your **NETWORK**. Your **COMMUNITY**.*

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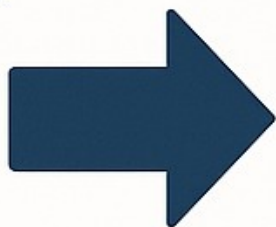
*You're not just here to learn ML – you're here to **BUILD SOMETHING** powerful together.”*

# **Why Machine Learning?**

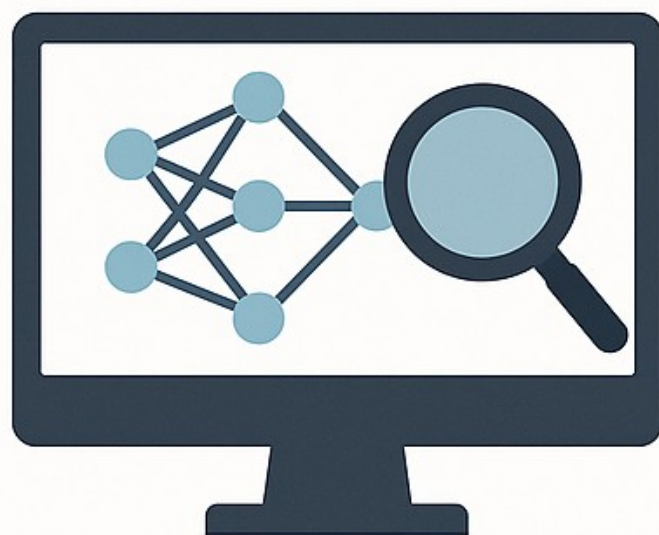
# From Data to Discovery

Machine learning enables new insights in research

Noisy Data



Insights





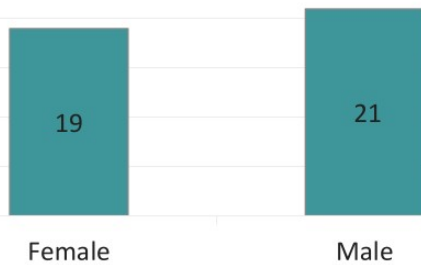
# EASY-ML (2025) Participants



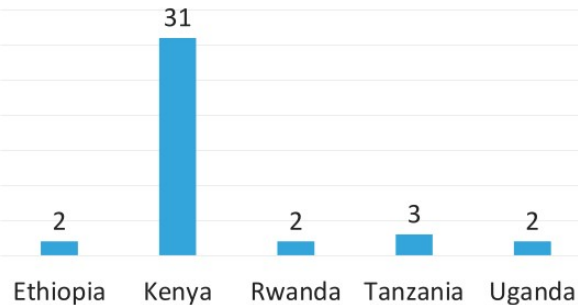
## EASY-ML SELECTED PARTICIPANTS



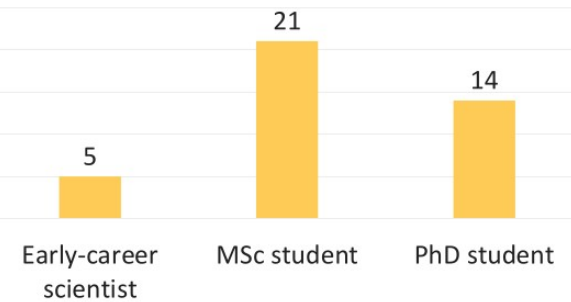
Gender



Country



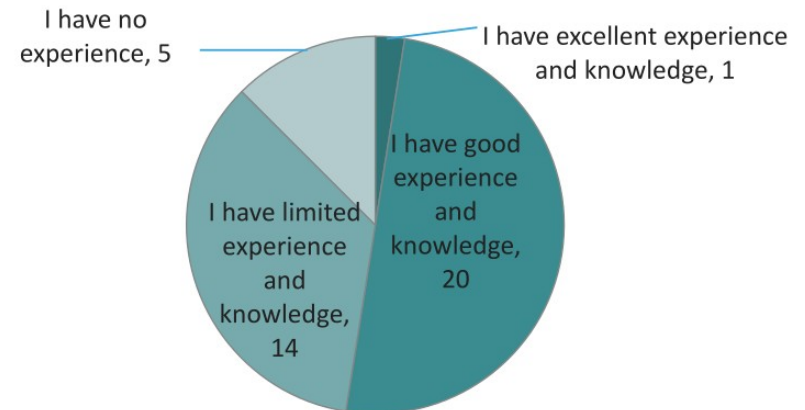
Total



Command Line / Linux Operating System



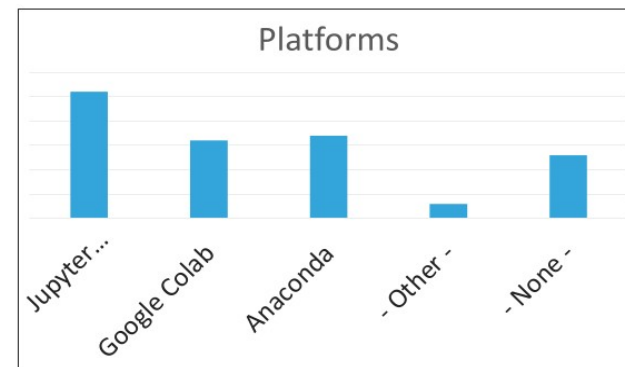
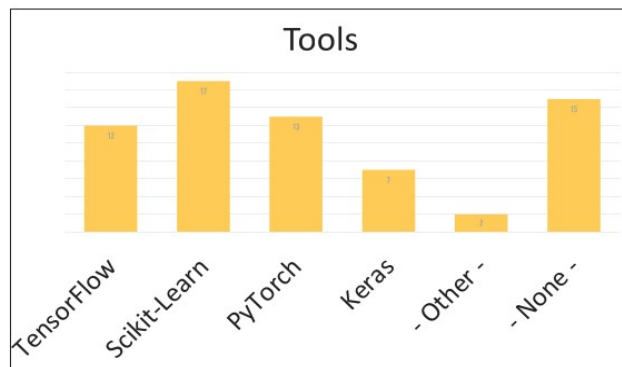
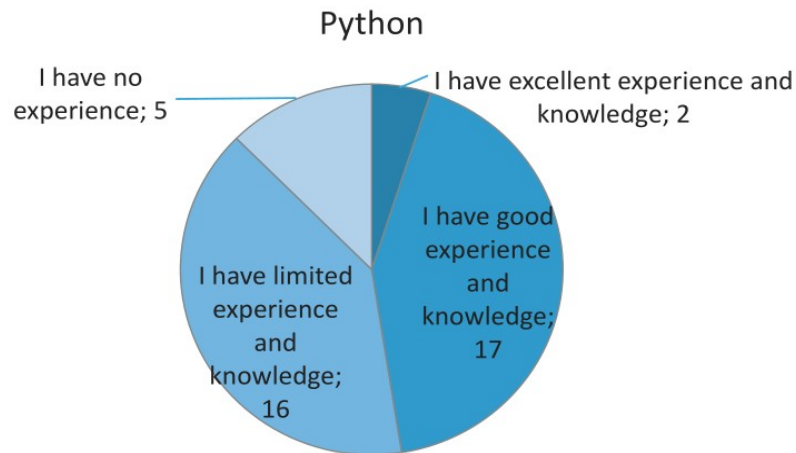
Data visualization and exploration



# EASY-ML (2025) Participants



## EASY-ML SELECTED PARTICIPANTS (2)



# Expected Outcomes

1. Gain Valuable Skills
2. Knowledge Exchange
3. Inspire Innovation and Creative Thinking
4. Networking and Collaboration
5. Inspire Future Projects
6. Community Building

# **EASY-ML (2025): Facilitators**

- 12 Organizers; 6 Lecturers; 4 TAs, ~15 Technical & Admin Staff

## **Teaching Assistants**

1. Dr Thomas Njoroge: Karatina University
2. Jeremiah Thuku: Kenyatta University
3. David Gichohi: Dedan Kimathi University of Technology
4. Samson Kinyanjui: Dedan Kimathi University of Technology

## **Technical Team**

5. Caroline, Rahab & Maina: Department of Physics:
6. Kamau & Team: Department of Computing & Informatics
7. Eunah & Team: Cooperate Affairs, UoN
8. Beatrice, Leornard & Mark: UoN Advancement Office
9. UNC TV Team: Department of Journalism and Mass Communication

# EASY-ML (2025): Facilitators

## Organizers

10. Prof Francis Nyongesa: Department of Physics, UoN
11. Dr Ian Kaniu: Department of Physics, UoN
12. Dr Dimitris Varouchas: Irene Joliot-Curie Lab (CNRS)
13. Dr Lydia Roos: Laboratoire de physique nucléaire et de hautes énergies (CNRS)
14. Dr Jeremiah Kebwaro: Karatina University
15. Dr James Mugambi: South Eastern Kenya University
16. Dr Stéphanie Gautier: Montpellier University, Geosciences (CNRS)
17. Dr Livingstone Ochillo: Jaramogi Oginga Odinga University of Science and Technology
18. Dr Lydia Olaka: Technical University of Kenya
19. Dr Lucy Kiruri: Kenyatta University
20. Dr Christel Tiberi: Montpellier University, Geosciences (CNRS)
21. Prof Peter Waiganjo: Department of Computing & Informatics, UoN

## Lecturers

22. Dr Claire David: African Institute for Mathematical Sciences, South Africa
23. Dr Edna Milgo: Open University of Kenya
24. Dr Kinyua Gikunda: Dedan Kimathi University of Technology
25. Dr Charles Ndung'u: University Paris-Saclay, France
26. Dr Isabelle Rocamora: Université Grenoble-Alpes, France
27. Dr Luca Cadamuro: Irene Joliot-Curie Lab (CNRS)

# House Keeping Rules

- The workshop is packed (7:45 am - 6:00 pm). **Please BE PUNCTUAL** throughout the week.
- Daily registration only in the mornings (7:45-8:00 am). **Late arrivals will be marked absent**. Sessions start at 8:00 am sharp.
- Meal allowance (**issued in the evenings**) will be based on daily attendance.
- Certificates will be issued on the last day, but **require attending all sessions and passing a short assessment test**.
- You will be **reimbursed for travel costs** on the last day.
- **Remember:** Your active participation throughout the week is key to a successful learning experience and earning your certificate!