ENEZA Data Science Residential Training Programme Schedule

Date: June 30th, 2025 - August 1, 2025

Venue:

- ✓ **First 3 Weeks:** Online
- ✓ **Final 2 Weeks:** International Centre of Insect Physiology and Ecology (ICIPE), Kenya
- ✓ **Session Times:** 9:00 AM – 5:00 PM daily

Schedule

TIME			Activity
09:00	–	11:00	1st Session
11:00	–	11:30	Break
11:30	–	13:00	2nd Session
13:00	–	1400	Lunch
14:00	–	15:30	3rd Session
15:30	–	16:00	Break
16:00	–	5:00	4th and Final Session

Training Area	Date
Orientation and Introduction to Data Science: ✓ Overview of the Residential training ✓ Training objectives, ✓ Role of data science in healthcare, ✓ Installation of software a/Linux / Bash basics	June 30, 2025
Advanced Bash Scripting	July 1, 2025
Git/GitHub and Markdown	July 2, 2025
Containerisation (Conda, Docker and Singularity)	July 3, 2025
R Basics, statistical analysis and plotting	July 4, 2025
Python Basics and Data Visualizations	July 7 and 8, 2025
Introduction to Molecular Biology/Genomics /Bioinformatics	July 9, 2025
Machine learning: ✓ Introduction to Machine Learning (ML), ✓ ML Applications in Healthcare, and Emerging AI tools and applications in healthcare.	July 10⁻14, 2025
NLP for text mining and clinical data analysis	July 15 and 16, 2025
Blockchain fundamentals and use cases in healthcare	July 17, 2025
Open Science and Research Data Management	July 18, 2025
Mini-project Development: ✓ Team-based problem solving in healthcare ✓ Talks (AI in healthcare)	July 21 – July 30, 2025 July 22-23, 2025
Final Presentation and Closing Ceremony: ✓ Team presentations, Expert panel reviews, Feedback, Closing ceremony	August 1, 2025