Erick Wambugu

Email: erick.wambugu23@gmail.com

GitHub: github.com/Erickpython

LinkedIn: linkedin.com/in/erick-wambugu-425a15161

Location: Mlolongo, Machakos County, Kenya

Mobile Phone: +254 717 829 705

Profile Summary

A passionate Meteorologist, Educator, and aspiring Web Developer dedicated to advancing literacy, climate awareness, and digital empowerment in under served communities. With experience in data-driven climate forecasting and teaching under the Teach for Kenya fellowship, I leverage both scientific and technical skills to drive impact. Currently enhancing software development skills through the Power Learn Project.

Education

South Eastern Kenya University
B Sc in Meteorology (First Class Honors)
2018 – 2022

- Specialization in climate science, satellite meteorology, weather forecasting, and data analysis.
- Member of SEKU Handball Team.

Kianjoya Secondary School
KCSE Grade: B- (56 Points)
2014 – 2017

- Participated in Boys Handball Team.

Skills

- **Languages & Tools:** Python, HTML, CSS, JavaScript (Basics), Bash, SQL
- **Web:** Responsive Design, Semantic HTML5, CSS3, Form Handling
- **Meteorology Tools:** McIDAS, Grads, WRF Model, py-CPT, SSH, Jupyter Notebook
- **Soft Skills:** Leadership, Teaching, Community Engagement, Communication

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Work Experience

Teacher Leader

Teach for Kenya, Mlolongo, Machakos County
January 2024 – Present

- Led literacy programs for under served students in a public primary and junior school.

- Integrated digital tools and tech-based learning in classroom delivery.
  Achievements:

- Improved literacy rates by **30%** over one academic term.

Satellite Meteorologist Intern

Kenya Meteorological Department, Dagoretti Corner, Nairobi
May 2022 – August 2022

- Accessed and interpreted satellite imagery via McIDAS software.

- Ran NWP models including WRF, processed data on Linux via SSH, and visualized using Grads.

- Executed seasonal weather forecasting with **py-CPT** in Jupyter Notebook.
  Achievements:

- Gained hands-on experience with Linux-based systems and advanced forecasting tools during industrial attachment.

Projects

🌐 Personal Portfolio Website

HTML & CSS-based personal website showcasing Erick's background, skills, and projects.
🔗 Visit Website

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📈 Research Project – Time Series Forecast of Surface Air Temperatures in Nakuru County

Final year meteorology project focused on analyzing and forecasting surface air temperatures using **ARIMA models** for improved localized climate planning.

🔗 View on LinkedIn

📚 Read Connect Literacy Platform

A community-driven platform providing access to reading materials and literacy games for under served learners.

🔗 Visit Read Connect

Certifications & Awards

- **First Class Honors** – South Eastern Kenya University
- **Power Learn Project** – Software Development -July 2025 - Cohort VIII(Ongoing)
- **Teach for Kenya Fellowship** – Education Equity & Leadership Program
- **Digital Literacy Champion Award** – Read Connect Initiative

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Interests

- Climate education and environmental sustainability
- Literacy advocacy and education access
- Open-source software and community tech
- Volunteering and community-based leadership
- Data visualization and digital storytelling