Ricky Sambo Macharm

Data Scientist

Profile Summary

Experienced Data Scientist with a strong background in both industry applications and education. Specializing in harnessing Artificial Intelligence tools for predictive analytics and infrastructure maintenance. Proficient in Python, with a passion for capacity building and training, having mentored over 2000 people in data science.

Skills

Python | Pandas | PyTorch | FastAI | Docker | Git | DuckDB | SQL | MongoDB | Polars | LangChain | FastAPI | Linux | Bash | WSL2 | Teamwork | Leadership

Experience

Freelance Consultant

Jan. 2018–Present

- ○ Led numerous students in mastering Python and Pandas for a strong foundation in Data Science.
- ○ Developed a contemporary corpus for the low-resourced Berom language, spoken by about 2 million people in Jos, Nigeria.
- ○ Facilitated hands-on experience with various technologies, enhancing students' ability to build web apps and conduct A/B testing.
- ○ Worked with frameworks like PyTorch via Fast.ai, Polars, and DuckDB.
- ○ Engaged in exploratory projects using LangChain, demonstrating a commitment to continuous learning and application of cutting-edge technologies.
- ○ Co-authored "Participatory Research for Low-resourced Machine Translation: A Case Study in African Languages".
- ○ Contributed to "AfriMTE and AfriCOMET: Empowering COMET to Embrace Under-resourced African Languages".
- ○ Involved in several projects including the development of backtesting applications and machine translation technologies.
- ○ Led a group of consultants on the GIZ project "Energy Solutions for Displacement Settings (ESDS)" in Ethiopia, focusing on developing financing solutions for refugees and local communities in the Gambella region.

Principal Electrical Engineer

Aug. 2007–Jan. 2018

National Veterinary Research Institute, *Vom, Nigeria*
- ○ Headed a team of engineers for maintenance of various labs equipment.
- ○ Collaborated with an international team in the construction and maintenance of high-level laboratory facility.

Electrical Engineer I

Aug. **Jos Metropolitan Development Board**, *Plateau State, Nigeria*
2006–Jul. ○ Head of the Electrical Engineering department.
2007 ○ Oversaw the day-to-day operations of the Electrical Department while reporting to management.

Campus Coordinator

Mar. **Great Commission Movement of Nigeria**, *Maiduguri, Nigeria*
2001–Jun. ○ Led the development and execution of character-building programs for university
2005 students, focusing on Christian values and ethical leadership, while overseeing a network of student development practitioners across four major universities in North-Eastern Nigeria.
○ Innovatively designed and managed pilot projects aimed at students' personal and communal development, including the organization and coordination of regional and international workshops, seminars, and conferences in Nigeria and Ghana, fostering a culture of proactive social responsibility and moral leadership.

Education

Apr. 2022 **Certificate in Python for Algo Trading**, *Saarland University of Applied Sciences*, Germany

Jan. 2021 **Master of Science in Financial Engineering**, *WorldQuant University*, New Orleans, USA

Jan. 2000 **Bachelor of Engineering in Electrical & Electronics Engineering**, *Abubakar Tafawa Balewa University*, Bauchi, Nigeria