



EUNICE MURIITHI

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Personal Summary

I am a highly skilled Data Scientist and Machine Learning Engineer with over three years of experience across diverse industries, applying AI, geospatial analytics, and predictive modeling to solve complex real-world challenges. Proficient in developing and deploying machine learning models using PyTorch, Scikit-learn, Transformers, NLP, computer vision, and time-series forecasting. Adept at managing the full ML pipeline from data acquisition, feature engineering, and model training to cloud deployment and MLOps integration to ensure scalable and efficient AI solutions. Strong problem-solver with a proven ability to collaborate with cross-functional teams and translate business challenges into AI-driven insights. Passionate about leveraging data science, machine learning, and AI innovation to drive impact in sectors such as finance, healthcare, environmental sustainability, and enterprise AI solutions.

Technical Skills

- Python
- SQL
- FastAPI
- Data Mining
- Predictive Modeling
- Statistical Analysis
- A/B Testing
- Numpy and Pandas
- Matplotlib and Seaborn
- Visualization Tools(PowerBi)
- TensorFlow
- Scikit-learn
- PyTorch
- Natural Language Processing
- Computer Vision
- Gen AI
- GIS tools like QGIS
- Cloud computing platforms (AWS, GCP)
- Problem-Solving
- Critical Thinking
- Effective Communication
- Collaboration

Work Experience

Zindi | Freelance

Competitive Data Scientist/Machine Learning Engineer

01/2024 - Current

- Integrated SAR (Synthetic Aperture Radar) and meteorological data to achieve 92% accuracy in predicting soil moisture levels, aiding users in remote sensing applications for precision agriculture.
- Built a geospatial forecasting model combining historical pollution data, meteorological factors, and Sentinel-5P satellite imagery, enhancing PM2.5 prediction accuracy by 22%.
- Designed a geospatial model leveraging weather and elevation datasets to identify flood-prone areas, increasing risk assessment accuracy by 20% and assisting participants in addressing environmental hazard challenges.
- Developed a predictive model that improved air pollution forecasting accuracy by 30%, supporting governments and organizations in implementing proactive health risk mitigation strategies.

Invisible Technologies | Remote- Contract

Machine Learning Engineer

12/2023 - 01/2025

- Developed a predictive analytics platform that enhanced forecasting accuracy by 30%, saving \$500,000 in annual inventory costs.
- Collaborated with cross-functional teams to align AI initiatives with business objectives, improving project delivery efficiency by 40%.

- Built predictive models, enhancing forecasting accuracy by 25% for decision-making
- Executed A/B testing on machine learning models, achieving a 15% performance improvement and enhancing customer satisfaction.

CodSoft | India

Machine Learning Engineer Intern

06/2024 - 07/2024

- Developed and deployed a predictive model to forecast customer churn, increasing customer retention rates by 25%.
- Implemented a recommendation system enhancing the user experience and boosting sales by 15%.
- Created interactive dashboards enabling stakeholders to interpret large datasets which improved decision-making efficiency.
- Developed predictive models, improving market trend forecasting by 30% and increasing financial performance by 12%.

Kenya Airports Authority | Nairobi, Kenya

ICT Support Intern

05/2023 - 08/2023

- Administered Flight Information Display System (FIDS) at JKIA, ensuring seamless real-time information flow across multiple locations.
- Managed ICT support for 200+ users, troubleshooting technical issues to maintain smooth airport operations.
- Optimized network performance, ensuring uninterrupted Wi-Fi and LAN for 10,000+ passengers daily, reducing downtime by 30%.
- Handled 50+ IT requests weekly, providing on-site and remote support to enhance efficiency across airport departments.

Education

Ngeni Labs (Code3Camp) | Nairobi, Kenya

Data Science and Artificial Intelligence

06/2024

Multimedia University of Kenya | Nairobi, Kenya

Bachelor of Business Information Technology

10/2023

Projects

- **Medical Chatbot:** A chatbot providing accurate answers to general medical questions, improving health literacy and decision-making in underserved areas.
Tools: Python, Flask, TensorFlow, NLP Libraries, Transformers, Chainlit.
Impact: Enhances access to reliable health information, empowering communities with better health knowledge.
- **LinkedIn Post Pro:** A platform to generate professional LinkedIn posts in multiple languages, fostering networking and knowledge-sharing across diverse communities.
Tools: Python, NLP Libraries, Streamlit, Transformers.
Impact: Promotes career growth, professional connections, and knowledge exchange in East Africa and beyond.
- **Real-Time Vendor Tracking with AI:** A real-time object detection and tracking system for warehouses, improving inventory management and operational efficiency.
Tools: Python, OpenCV, TensorFlow, YOLO, Roboflow.
Impact: Optimizes supply chains, reduces costs, and ensures seamless warehouse operations.
- **Ask Your PDF:** An AI-powered chatbot that interacts with PDFs to extract specific information and provide real-time answers.
Tools: Python, LangChain, PyPDF2, FAISS, Streamlit.
Impact: Simplifies research and decision-making, saving users time and effort when analyzing large documents.

- **Agri Smart:** A data-driven agricultural system that helps farmers optimize practices, improve yields, and adopt sustainable methods.

Tools: Python, Pandas, Scikit-learn, Tableau, Power BI, Angular, JavaScript.

Impact: Enhances food security and promotes sustainable farming, benefiting farmers and the environment.

Languages ---

English: C2



Proficient (C2)

References ---

References available upon request.