EUNICE MURIITHI

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PROFESSIONAL SUMMARY

Results-driven Data Scientist and ML Engineer with 2 years of experience building and deploying AI solutions. Skilled in managing end-to-end machine learning pipelines from data wrangling to model deployment and MLOps using TensorFlow, PyTorch, FastAPI, Docker, and AWS. Proven expertise in NLP, predictive analytics, and computer vision, solving real-world challenges across forecasting, automation, and diagnostics. Passionate about delivering scalable, production-ready AI systems and mentoring the next generation of tech talent. Currently seeking roles in AI engineering, applied data science, or ML product teams focused on building high-impact solutions in production environments.

SKILLS

- **Programming & Frameworks:** Python (Django REST Framework, NumPy, Pandas), SQL
- **Machine Learning & NLP:** TensorFlow, PyTorch, Scikit-Learn, Sentiment Analysis, NLTK, Hugging Face Transformers, Computer Vision.
- **Data Analytics & Visualization:** Power BI, Tableau, Matplotlib, Seaborn
- **Database Management Systems:** MySQL, PostgreSQL
- **Cloud & Deployment:** Docker, AWS (S3, EC2), Server (ScalaHosting), FastAPI, MLflow

EXPERIENCE

Machine Learning Engineer | Invisible Technologies | Remote | December 2023 - January 2025

- Enhanced sales forecasting accuracy by 30% and reduced inventory holding costs by $500K/year by developing time-series models using PyTorch on retail transaction data.
- Improved model reliability by 15% through implementing model versioning and hyperparameter tracking with MLflow, ensuring consistent performance across product lines.
- Minimized model downtime to near-zero by containerizing predictive pipelines with Docker and deploying via FastAPI on AWS EC2, supporting real-time stock planning.
- Reduced customer churn by 12% by conducting real-time sentiment analysis of customer reviews using NLTK and Hugging Face Transformers, improving feedback response systems.

Data Analyst Trainer | Lux Tech Academy | Hybrid | July 2024 - November 2024

- Achieved a 90% course completion rate and helped 80% of learners secure jobs/internships by delivering training in Python, Power BI, Tableau, and machine learning.
- Improved data literacy and practical skills by mentoring 120+ students through hands-on exercises and real-world case studies.
- Enabled the development of business-ready insights by guiding learners in building capstone projects using Scikit-learn and Power BI.
- Enhanced student engagement and retention by using Seaborn and Jupyter Notebooks to simplify complex concepts.

Machine Learning Engineer Intern | CodSoft | Remote | June 2024 - July 2024

- Enhanced retail demand forecasts by 30% and supported 12% revenue growth by applying Scikit-Learn models to seasonal transaction data.

- Increased conversion rates by 15% through a personalized recommendation engine built using Python.
- Delivered 25% faster decision-making by creating KPI-driven dashboards in Tableau visualizing stockout risks and sales trends.
- Automated analytics reporting processes, reducing manual effort by 40%, using integrated PostgreSQL queries and Python scripts.

ICT Support Intern | Kenya Airports Authority | Onsite | May 2023 - August 2023

- Reduced retail system downtime by 30% by providing proactive Tier-1 ICT support using Linux-based diagnostics.
- Maintained real-time signage and advertisement systems by supporting the Flight Information Display System (FIDS).
- Ensured seamless operations for 10,000+ daily passengers by stabilizing network infrastructure impacting retail environments.
- Reduced troubleshooting time by 35% through structured logging and SQL-based issue diagnostics in MySQL

EDUCATION

Data Science and Artificial Intelligence | Ngeni Labs (Code3Camp) | Nairobi, Kenya | June 2024

Bachelor of Business Information Technology | Multimedia University of Kenya | Nairobi, Kenya | October 2023

PROJECTS

- **Real-Time Vendor Tracking with AI:** This project involved building a real-time object detection and tracking system for warehouses, utilizing Python, OpenCV, TensorFlow, YOLO, and Roboflow. The impact of this system is the optimization of supply chains, reduction of operational costs, and ensuring seamless warehouse operations.
- **Agri Smart:** Agri Smart is a data-driven agricultural system created to assist farmers in optimizing their practices, improving crop yields, and adopting sustainable farming methods through the use of Python, Pandas, Scikit-learn, Tableau, Power BI, Angular, and JavaScript. This initiative enhances food security and promotes sustainable farming, benefiting both farmers and the environment.
- **Medical Chatbot:** A chatbot was developed to provide accurate answers to general medical questions, aiming to improve health literacy and support better health decision-making, especially in underserved areas. The tools employed include Python, Flask, TensorFlow, NLP Libraries, Transformers, and Chainlit, leading to enhanced access to reliable health information and empowering communities with improved health knowledge.
- **LinkedIn Post Pro:** This platform was designed to generate professional LinkedIn posts in multiple languages to foster networking and knowledge-sharing across diverse communities, leveraging Python, NLP Libraries, Streamlit, and Transformers. The impact includes promoting career growth, facilitating professional connections, and encouraging knowledge exchange within East Africa and beyond.

REFERENCE

Available Upon Request.