Robert Steve Onyango

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CAREER OBJECTIVE

Data Engineer with 2+ years of experience building robust ML models, scalable data pipelines, and interactive dashboards. Achieved 92% prediction accuracy on 15+ ML models and a 98% client satisfaction rate through innovative automation and ETL optimization. Eager to leverage expertise in Python, AWS ML services, and advanced data processing to drive real-world innovation in healthcare accreditation.

EDUCATION

Jomo Kenyatta University of Agriculture and Technology (JKUAT), Karen, Nairobi   **2025**
BSc., Data Science

EXPERIENCE

Upwork   **Jul 2022 - Present**
Data Analyst   *Remote (Nairobi County, Kenya)*
- Designed interactive dashboards and automated reporting systems using Power BI, enabling data-driven decision-making aligned with key performance metrics.
- Delivered over 40 data projects across diverse industries, maintaining a 98% client satisfaction rate and demonstrating robust experimental design and hypothesis testing skills.
- Built 15+ machine learning models with scikit-learn, TensorFlow, and PyTorch, achieving up to 92% prediction accuracy and applying advanced Python techniques for ML development.
- Engineered scalable data pipelines with Apache Spark, SQL, and Python to streamline ETL processes, reducing processing time by 35% and ensuring data quality and validation.
- Deployed production-level models and APIs using FastAPI and Docker, integrating automated workflows and version control practices for efficient ML service delivery.

Nairobi City County Government   **May 2024 - Jul 2024**
Information System Auditor   *On-site*
- Audited IT systems for compliance with cybersecurity policies and the Data Protection Act (2019), ensuring adherence to data privacy and quality assessment standards.
- Identified and reported over 15 system vulnerabilities, enhancing governance and risk management practices by 25% through thorough data validation and comprehensive audit techniques.
- Collaborated with cross-functional teams to enhance IT operations, applying strong problem-solving and critical thinking skills to improve infrastructure reliability.
- Authored detailed audit reports and risk assessments for senior leadership, reinforcing systematic data extraction and evaluation processes.

PROJECTS

Financial Sentiment Analysis Using Hugging Face Transformers
- Building an NLP model to analyze financial market sentiment using pre-trained LLMS from Hugging Face.
- Incorporating prompt engineering, vector embeddings, and fine-tuning to derive insights from news and social data.

Postgres Transactional DB with Airflow
- Developed a PostgreSQL database powered by Apache Airflow for automated ETL workflows.
- Ensured scalability and orchestration reliability using Python-based DAGS.

POS-Focused ML API for Big Data Analytics
- Designed RESTful APIs in Python, integrating ML models for real-time analytics on POS systems.
- Used FastAPI, Docker, and robust code practices to ensure scalability and maintainability.

Movie Recommender System
- Developed a movie recommender system using Jupyter Notebook, focusing on data-driven personalized recommendations.
- Leveraged libraries and algorithms to build and evaluate collaborative filtering and content-based recommendation models.
- Designed and implemented user-friendly workflows for analyzing movie preferences and generating recommendation outputs.

SKILLS

- **AI/ML**: Python, PyTorch, TensorFlow, scikit-learn, FastAPI, Hugging Face, LangChain, Generative AI, Prompt Engineering, NLP, Computer Vision
- **Data & Engineering**: Apache Airflow, Spark, SQL, PostgreSQL, Docker, Pandas, Streamlit, Power BI, Tableau
- **Cloud & DevOps**: AWS, Google Cloud, Microsoft Azure, Git
- **Interpersonal**: Teamwork, Critical Thinking, Communication, Resilience, Flexibility, Problem Solving
- **Languages**: English, French, Swahili

CERTIFICATIONS

- **AWS Certified Cloud Practitioner**: Amazon Web Services (2023)
- **Machine Learning with Python**: freeCodeCamp (2022)