Biniyam B. Demisse *MLOps / ML Engineer*

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PROFILE

Experienced ML and MLOps Engineer with a strong background in Machine Learning, Infrastructure Management, and Deployment Pipelines. Proven track record of success in developing, deploying, monitoring, and Optimizing AI-driven applications in cloud environments. Skilled in both AWS and Azure, with a focus on building end-to-end systems for AI applications. Adept at team collaboration and possess excellent communication skills. Looking to leverage expertise in MLOps and ML Engineering to drive innovation and deliver impactful solutions.

PROFESSIONAL EXPERIENCE

ML and MLOps Engineer (2 years), Adludio 🖉   Sep 2022 – present
- Led the AI and MLOps team, driving infrastructure optimization and scalability while reducing infrastructure costs by 50% through decommissioning unused services and transitioning to serverless options.
- Designed and implemented end-to-end machine learning pipelines for production using MLflow, AWS SageMaker, and other cloud-native tools, ensuring robust model deployment across multiple AI projects.
- Developed the Bid Optimization project, which improved KPI returns by 15%, fine-tuning bidding strategies to maximize ad performance.
- Played a key role in the Lorenzo project, managing MLOps workflows to streamline machine learning processes and add value to campaign analytics.
- Developed a predictive model for campaign performance, utilizing campaign attributes like time of day and day of the week to optimize scheduling for maximum KPI returns.
- Supported the bid inventory recommendation system, enhancing targeting accuracy and efficiency in inventory selection to drive smarter ad spend allocation.
- Participated in the development of an LLM-based brief information collection tool, aiding in efficient and accurate gathering of campaign briefs for ad creation.
- Managed cloud infrastructure for the entire company, implementing cost-saving strategies that halved infrastructure expenses while ensuring secure, scalable operations.
- Built fully automated CI/CD pipelines using Jenkins and AWS CodePipeline, reducing manual intervention and accelerating deployment processes.
- Established a secure cloud infrastructure that passed third-party security audits, applying best practices across AWS services to ensure compliance and data protection.

Data analyst (~ 1 year), Ethio Telecom 🖉   Nov 2021 – Sep 2022
- Developed automated Python and SQL scripts for processing, cleaning, and visualizing large datasets of customer and wireless network data, which continue to be used in operations today.
- Analyzed network and customer data from MSAG and MSAN boxes, using BigQuery for data processing and Google Data Studio for visualizing insights to aid decision-making.
- Developed a predictive maintenance model for network equipment using Random Forest classification, resulting in a 9.5% reduction in downtime within a selected test region.
- Improved data quality through comprehensive cleaning processes, which enhanced the accuracy of network analytics and enabled more effective targeted maintenance strategies.

EDUCATION

Machine learning engineering, 10 academy 🖉   May 2022 – Jul 2022

Software Engineering, ALX Africa 🖉   Jul 2021 – Jul 2022

Electronic Communication Engineering,   Sep 2015 – Feb 2021
Addis Ababa Science and Technology University 🖉

SKILLS

Orchestration and containerization	ML and DL	Programming	AWS
Mlflow, Kubernetes, Docker, Airflow, Github actions, circle ci, Jenkins and others	pandas, sklearn, pytorch, tensorflow, Spark, Redash, Postgres, Mysql, others…	Python, Bash, Javascript, and others	ECR, Batch, Sagemaker, ECS, CloudFormation and Ohters.

CERTIFICATES

AWS Solutions Architect 🔗 (End to end AWS infrastructure design and implimentation)

ISC2 Certified in Cybersecurity 🔗 (System, Network, and Applications security check and insurance)

Google Data Analytics 🔗 (Data cleaning, processing, and visualization and proper storage.)

PROJECTS

Bid Optimization, Real Time Bidding Optimization project 🔗

Rag Pipeline, Rag pipeline and chatbot for personal documents 🔗

LLM finetuning, finetuning llm for amharic 🔗

sales prediction, pharmaceuticals sales prediction using different algorithms 🔗