Ebenezer Gelo

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A results-driven **Machine Learning Engineer** with expertise in developing end-to-end AI/ML solutions. Skilled in implementing algorithms, and deep learning frameworks, and deploying models to production.

Experience

Machine Learning Engineer • Data-Led Insights

JAN 2024- PRESENT

- Developed visually engaging live dashboards for monitoring and enhancing KPIs in quick-commerce fulfillment operations at Breaze Delivery.
- Applied machine learning to extract actionable insights from complex datasets across different domains.
- Identified trends, anomalies, and optimization opportunities for companies.
- Collaborated with cross-functional teams to translate findings into practical recommendations.

Technical Co-Founder • Flyte Agency

DEC 2021 - JUL 2022

- Demonstrated commitment to our mission through a compelling online presence.
- Designed and developed the company website, emphasizing digital excellence and unique offerings.
- Played a pivotal role in establishing the company's vision and mission.
- Developed and deployed a churn prediction system for an e-commerce store as a proof of concept.

Website Developer • Youth In Transformation (YIT)

OCT 2020 - SEP 2021

- Led the creation of a cohesive branding strategy for YIT.
- Utilized low-code tools to develop responsive website.
- Integrated user-friendly CMS for seamless content updates.
- Enhanced organization's online presence significantly, aligning with mission of providing quality education for African youth.

Research

Learning World Value Functions (WVFs) without Exploration

- Researched and implemented offline Reinforcement Learning algorithms, including offline Deep Q-Network (DQN) and Batch Constrained Q-learning (BCQ), for learning WVFs across different data buffer sizes.
- Conducted extensive experiments in discrete and continuous action domains, utilizing a 2D video game and a robotic environment.
- Demonstrated the importance of large and diverse datasets for learning WVFs in a batch setting.

Education

MSc Computer Science
University of the Witwatersrand
JAN 2024- PRESENT

BSc(Hons) Computer Science
University of the Witwatersrand
JAN 2023 - DEC 2023

BSc Computer Science
University of the Witwatersrand
JAN 2020 - DEC 2022

Skills

Programming Languages
Python | Java | C/C++ | Scala | Julia | JavaScript | SQL

Data
MySQL | MongoDB | Firebase

MLOps
Git | GitHub | Docker | Kubernetes | MLFlow | Data Version Control (DVC) | Apache Beam | AWS SageMaker | GCP Vertex AI | Kubeflow

Projects

- ML trading bot with Alpaca API
- Web scraping summarizer
- Deep RL for Franka Emika Robot
- Credit card fraud detection
- Deepfake detection using Deep ML
- Finetuning Whisper and GPT

References

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