Ebenezer Gelo

A results-driven **Machine Learning Engineer** and **Data Scientist** skilled in implementing deep learning algorithms and deploying production-ready models. Adept at bridging research and real-world applications, delivering end-to-end data science solutions.

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Experience

Junior Data Scientist • PYGIO

APR 2024 - PRESENT

- Developed a rule-based Named Entity Recognition (NER) model to extract key features from meta descriptions, enhancing data processing accuracy.
- Conducted SLA reporting for a small capital firm specializing in solar panel financing, ensuring compliance and optimizing operational efficiency.

Member/Researcher • RAIL Lab

FEB 2024 - PRESENT

- Actively engaged in research and development as I pursue a master's degree in computer science, contributing to advancements in AI and machine learning.

ML Engineer Intern • Data-Led Insights

JAN 2024 - MAR 2024

- Identified trends, anomalies, and optimization opportunities for companies.
- Applied machine learning algorithms to extract actionable insights from complex datasets across different domains.

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.

Research

Learning World Value Functions (WVFs) without Exploration

DEC 2021 - JUL 2022

- 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

References

Mafkereseb Bekele, PhD
Data Engineer @ Woodside Energy
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Jason Stanier
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