SAMUEL ADETSI

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SUMMARY

Master of Data Science from UBC with hands-on expertise in machine learning, computer vision, and data science. Experienced in developing end-to-end AI solutions, including model training, image processing, and deployment. Passionate about using technology to transform healthcare, specifically teleophthalmology and disease detection.

TECHNICAL SKILLS

- **Programming:** Python, R, SQL, C++
- **Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, Regression, Classification, Clustering, Convolutional Neural Networks (CNNs), NLP, Deep Learning, Time Series Forecasting
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Data Science:** A/B Testing, Hypothesis Testing, Feature Engineering, Data Wrangling, Model Evaluation (Precision-Recall, F1-score, ROC AUC, Confusion Matrix, RMSE, MAE, R^2 Score, Log Loss)
- **Visualization:** Altair, Matplotlib, Seaborn, Plotly, Dash, Streamlit, ggplot
- **Cloud & APIs:** REST API, Docker, AWS, Snowflake, Apache Airflow
- **Software Development:** Git, GitHub, CI/CD (Continuous Integration & Deployment)

EDUCATION

- **Master's in Data Science** **August 2024 - June 2025 (Expected)**
  - University of British Columbia - Vancouver, Canada

- **Bachelor's in Information Technology** **Aug 2017 - Oct 2021**
  - University of Cape Coast - Cape Coast, Ghana

WORK EXPERIENCE

Software Engineer | Morgan Stanley (Jan 2022 - Apr 2023)

- Optimized C++ feedhandlers, increasing data processing speed by 20%.
- Automated tasks using Bash, reducing manual workload by 15+ hours/month.
- Conducted advanced data analysis to improve market data accuracy.

Software Engineer | FINOS Open Source Foundation (Apr 2023 - Nov 2023)

- Contributed to Perspective & Waltz, improving open-source FINTECH tools.
- Enhanced data visualization libraries in C++, increasing adoption.

PROJECTS

Health-Predictor

- Developed a PyTorch-based neural network to predict health scores from real-world activity metrics (steps, calories, sleep), demonstrating a clear application of AI in healthcare.
- Built an interactive Flask-based dashboard for predictive analysis,

ML Runtime Prediction Model

- Built an XGBoost-based model to predict ML training runtime using machine specs, dataset properties, and model complexity, achieving 95% R^2 on the test set. Deployed via FastAPI REST APIs and a Streamlit dashboard for real-time predictions enabling real-time health monitoring

ATS Resume Analyzer

- Developing an AI-powered NLP system using spaCy & Scikit-learn to extract skills and match resumes to job descriptions. Implementing Named Entity Recognition (NER) & TF-IDF for resume ranking.