

# SAMUEL ADETSI

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## SUMMARY

Master of Data Science graduate from UBC with expertise in machine learning, experimental design, and recommendation systems. Proven experience developing production-ready systems and data-driven solutions at Morgan Stanley and FINOS. Skilled in A/B testing, statistical modeling, and building personalized ML models through academic projects and personal development. Passionate about leveraging AI and data science to enhance user experiences in gaming and entertainment.

## TECHNICAL SKILLS

- **Programming:** Python, R, SQL, C++
- **Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, Recommendation Systems, Deep Learning, NLP, Time Series Forecasting
- **Experimental Design:** A/B Testing, Hypothesis Testing, Statistical Analysis, Causal Inference
- **Databases & Data Lakes:** PostgreSQL, MySQL, MongoDB, Complex Semi-structured Data Querying
- **ML Deployment:** AWS Sagemaker, Docker, REST APIs, Model Monitoring
- **Data Science:** Feature Engineering, Model Evaluation, Personalization Algorithms, Content Optimization
- **Visualization:** Streamlit, Dash, Plotly, Matplotlib, Seaborn
- **Development:** Git, GitHub, CI/CD, Version Control, Code Reviews

## EDUCATION

- **Master's in Data Science** | Aug 2024 - Jun 2025
  - 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)

- Developed production-ready C++ systems processing large-scale financial data, improving performance by 20%
- Conducted statistical analysis on complex, semi-structured datasets to optimize market data accuracy
- Collaborated with cross-functional teams to deliver data-driven solutions for trading platforms
- Automated data processing workflows, reducing manual effort by 15+ hours/month

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

- Enhanced open-source data visualization libraries (Perspective & Waltz) used by financial institutions
- Contributed to production codebases alongside distributed development teams
- Improved user experience through data-driven UI/UX enhancements

## PROJECTS

### ML Runtime Prediction Model - Personalized Performance Optimization

- Built XGBoost model to predict ML training runtime, achieving 95%  $R^2$  accuracy on test set
- Deployed production-ready solution via FastAPI REST APIs with real-time prediction capabilities
- Created interactive Streamlit dashboard for dynamic content delivery based on user inputs

### Health-Predictor - Personalized Content System

- Developed neural network for personalized health score predictions from user activity data
- Built interactive Dash dashboard with Flask backend for real-time, personalized user experiences
- Implemented A/B testing framework to optimize recommendation accuracy