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Timi Folaranmi

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EDUCATION

MSc. Statistics, University of Nottingham

September 2023 - September 2024

Relevant Modules: Statistical Machine Learning, Time Series & Forecasting, Computational Statistics, Classical and Bayesian Inference

BSc. Economics and Mathematics, University of Bath

September 2019 - June 2023

Relevant Modules: Linear Algebra, Markov and Stochastic Processes, Statistics, Probability and Econometrics

EXPERIENCE

Data Scientist Intern September 2024 — Present

Ardian London, UK

- Deployed RAG automation (API-based) leading to time savings of 10+ hours weekly on financial reporting tasks, leveraging LLMs
- Developed rigorous RAG evaluation pipeline, achieving > 75% context precision accuracy with advanced custom chunking method
- Applied machine-learning (Random Forest, XGBoost) and statistical-based (Survival Analysis, ARIMA) techniques for forecasting
- Conducted large scale (10M+ rows) data analysis on both structured and unstructured datasets for data-driven decision making

Global Markets Summer Analyst

June 2022 — August 2022

Credit Suisse

- Developed dynamic visualisation tool with Python (pandas, plotly), analysing equity data for Equity Resource Management team
- Pitched and researched equity trade idea to a panel of 12 Managing Directors, achieving 'AA' rating ('AAA' being the highest)
- Rotated across High Yield Credit Trading, Equity (Cash) Trading, and Equity Resource Management trading desks

Data Analyst January 2022 — May 2022

Expedition Growth Capital

London, UK

London, UK

- Implemented web scraping/information retrieval tool, saving up to 3+ hours daily for real-time data collection from various sources
- Formulated initial ideas of investment strategy in Blockchain/Web3 space, delivering pitch and presentation to 6+ team members

Quantitative Research Intern

July 2021 — August 2021

Point72 Asset Management

London, UK

- Analysed structure of currency data with Python (pandas), developing quantitative trading strategies for currency products
- Developed application using SQL to analyse bond data, for visualisation in Microsoft PowerBI and Tableau
- Internship within FX Options trading pod, building quantitative trading strategies for foreign exchange products

ACADEMIC RESEARCH & PROJECTS

Adversarial Robustness of Rate - Encoded Spiking Neural Networks | Paper

- Explored robustness to attack of several types of rate encoded Spiking Neural Networks (SNNs) for MSc. thesis
- Leveraged PyTorch framework to construct SNNs subject to various white box (FGSM, PGD) and black box (Pixle method) attacks
- Contributed novel insights to AI Safety research concerning adversarial robustness of SNNs when neuron type is varied

Diagnosis of heart conditions from ECG data, a classification problem | Paper

- Utilised Random Forest (RF) model in R to diagnose heart conditions from ECG data, leveraging RF for precise medical diagnostics
- As a team, engineered model which reduced diagnostic turnaround time, enhancing patient care in clinical settings
- Developed efficient workflow integrating data preprocessing, feature selection, and model training on patient ECG data

Designing a model for prediction of train delays to Nottingham Station, via Random Forest | Paper

- Engineered predictive Random Forest model in R capable of providing accurate estimations of train delay
- Facilitated improved management of train schedules, staffing, and infrastructure maintenance in Nottingham to minimise delays

Evaluation of the effectiveness of Support Vector Machines (SVMs) in classification problems | Paper

- Analysed how SVMs effectively separate data using linear and kernel-based techniques, focusing on margin-based classification
- Demonstrated superior results on dataset using kernel based SVMS, highlighting strong performance above well-known methods

SKILLS

Programming skills Python (PyTorch, Scikit - Learn, PySpark, TensorFlow), R

Software and Tools SQL, AWS, Snowflake, Docker, Spark, Git PowerBI, Bloomberg, FastAPI, Excel

INTERESTS

Brazilian Jiu - Jitsu

Undergoing intensive competitive training for inter – club competition

Comedy writing and acting Produced, wrote and acted in 5 – act comedy show to audience of 200+ whilst studying at university