Edward Monbiot

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London, UK
Nationality: British/Filipino

PROFILE

Analytical data science postgraduate with over six years of experience in the investment industry, seeking a challenging, data-focused role. Skilled in integrating diverse data sources and adept at translating data into actionable insights to drive growth. An effective communicator who enjoys team collaboration and excels in high-pressure situations. Excited to apply my data science skills in a dynamic and innovative environment.

EDUCATION

Barcelona School of Economics   September 2023 - July 2024
Data Science for Decision Making, MSc (Grade: 7.9/10)

- Master's Thesis: Utilised natural language processing to develop a large language model-based cacophony index for the European Central Bank (ECB) , measuring media-perceived discordance of ECB Governors against official communications.

Trinity College Dublin   September 2011 - June 2015
Mechanical Engineering, BEng (Grade: 2.1)

EMPLOYMENT

Caxton Associates   London, UK   *Macro Hedge fund, $10 Billion AUM*   May 2022 - June 2023

Associate Vice President - Data Governance Analyst

- Responsible for data integrity in the firm's core operating system, maintaining a high quality data environment.
- Curated data warehouse to create investment insights for decision making in Caxton's record year of returns (56%).
- Managed listed and OTC data from multiple sources, including 1000+ daily trades, ensuring high standards of data management and FCA regulatory compliance.
- Developed a round-the-clock data governance alert dashboard that reduced data irregularities by 14% in 6 months post launch.
- Harnessed Python to optimise time-sensitive data issues, reducing discrepancies by 18%.
- Delivered updates to senior stakeholders, drove strategic projects, addressed system issues, and managed development patches.

Associate - Implementation Project Manager   March 2019 - May 2022

- Contributed significantly to a three-year, firm-wide project to decommission legacy infrastructure and migrate data to a cutting-edge, cloud-based system, enabling AUM to increase from $3 billion to $10 billion.
- Built multi-asset class trading infrastructure with banks, trading venues and data vendors, extensively utilising FIX protocol and APIs.
- Owned and enhanced the data reconciliation process by identifying patterns and causes of trade breaks between legacy and new operating system, rectifying issues.
- Designed the logic for Caxton's trade transparency reporting to meet ESMA standards, using a FIX connection to deliver trade information within 5 minutes of execution.
- Played a leading role in the go-live process, ensuring a smooth switchover of systems.
- Identified and automated repetitive manual processes in the Operations team, leveraging SQL and Python.

Traiana, CME Group   London, UK   *Fintech, Servicing 2100+ Clients*   September 2016 - March 2019
Technical Project Manager

- Successfully delivered over 100 FX post-trade integration projects, connecting asset managers and hedge funds to the flagship product: Traiana Harmony via FIX, sFTP, and RabbitMQ.
- Collaborated with Sales as a technical expert to expand the client network, contributing to 15% growth from 2017 to 2019.
- Managed extensive UAT, and hot-fixes, enhancing user experience and product reliability.
- Promptly resolved production issues across FX, fixed income, cash equity and equity swaps.

PROFESSIONAL QUALIFICATIONS

General Assembly
Data Analytics

September 2021- November 2021

CFA UK
Investment Management Certificate

February 2018

KEY COMPETENCIES

Data Science

- Machine Learning: Random forest, k-nearest neighbours, model evaluation
- Deep Learning: Neural Networks, Ensembles
- Big Data: MongoDB, PySpark, Hadoop
- Statistics: Regression analysis, hypothesis testing, time series

Programming & Scripting

- Python: Proficient in all major packages (Pandas, NumPy, Scikit-learn, TensorFlow, Keras)
- SQL: Querying and data manipulation
- R: Data visualisation

Finance Industry Knowledge

- Capital Markets
- FX, Equity, Bonds, Repo, Futures, Options, Swaps
- Asset Management
- Compliance

Natural Language Processing

- Frameworks: text mining, pre-processing, prompt engineering, sentiment analysis.
- Libraries: Hugging Face, XGBoost, PyTorch, TensorFlow
- Skills: Benchmarking, fine-tuning, annotation, data augmentation
- Large Language Models for text classification (BERT & Open AI API)

Tools & Technologies

- Git & GitHub: Version control and project showcasing
- Jupyter Notebooks: code execution and visualisation
- VS Code: code development and debugging
- Microsoft Excel: Advanced functions, pivot tables
- Cloud Platforms: AWS
- NoSQL Databases: MongoDB
- Trade messaging formats: FIX, XML, JSON

EXTRA CURRICULAR ACTIVITIES & LANGUAGES

Tennis
- Competed in the UK junior circuit (2002 - 2011)
- Captained high school team (2011) and *Trinity College Dublin* Men's 1st Team (2014)

Other Interests

- Squash
- Kitesurfing
- Keen cyclist & golfer

Languages

- English: Native
- Spanish: Upper-intermediate

Volunteering
- *Fundación Social Antorches de Vida*, (June - July 2016) Medellín, Colombia, taught English and Maths to underprivileged children.

REFERENCES

Prof. Hannes Muller
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Barcelona School of Economics
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