Morteza Nateghi

Data Scientist / Data Analyst

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Summary

Data Scientist with **3+** years of experience, leveraging **statistical modeling**, **A/B testing**, and **causal inference** to provide data-driven business decisions in the fintech industry. Demonstrated track record of using **Python** and **SQL** to develop automated and scalable solutions that enhance data accuracy and streamline processes. Proficient in extracting and analysing datasets from cloud platforms such as **Microsoft Azure** and APIs. Experienced in collaboration and **communication** with technical teams, non-technical stakeholders, and clients. Expert at using visualisation tools and **Tableau** dashboards to present impactful visual insights that inform business decisions.

Experience

Coindesk (CCData)   Jan 2022 - Jul 2025
Data Scientist   London, UK

CoinDesk is a leading media, indices, and data company for the global crypto economy, with around **50 million** users worldwide.

- Conducted **statistical analysis** using **Python** to replicate the mathematical logic of institutional cryptocurrency indices. Designed **A/B tests** to validate parameter improvements, boosting market responsiveness by **2bps** and supporting client acquisition and revenue growth.
- Performed **exploratory data analysis (EDA)** and built **Tableau dashboards** to monitor cryptocurrency market trends, enabling timely product adjustments and contributing to a **10%** expansion in market coverage.
- Designed and conducted **A/B tests** on alternative index calculation methodologies, analysing price accuracy and stability metrics to guide client decision-making and support long-term business revenue.
- Built automated Python-based **data pipelines** to ingest data from databases on **Microsoft Azure** cloud platform, replicate real-time index values using mathematical formulas and compare outputs against actual index values to ensure **99.5%** data accuracy and SLA compliance.
- Developed real-time **monitoring scripts** in **Python** with Slack integration and **Tableau dashboards** to visualise pipeline performance and alert trends, enabling fast incident detection and maintaining **100%** SLA compliance for response and resolution times.
- Served as the **primary contact** between technical teams, non-technical stakeholders, and clients, ensuring end-to-end **communication**, clearly translating complex data concepts, and supporting effective implementation.
- Refactored and optimised a legacy JavaScript-based index review process into a Python-based system, lowering review runtime by **40%**.

Ministry of Labour and Social Welfare   Apr 2019 - Oct 2019
Financial Analyst

- Analysed the ownership and capital structure of Social Security Organisation subsidiaries using **Excel** and **Python,** utilising **linear regression** to identify financial dependencies and governance risks. Provided reports and visualisations for senior management review.

Projects

- Determinants of Leverage Ratio

MRes Thesis: Examined factors affecting corporate leverage ratios through **regression analysis** and capital structure theory, using **Python** and **Stata**.

- Modelling Online Taxi Drivers' Decision Making

Computational Economics Project: Developed a **Python-based** simulation model using **dynamic programming** to analyse the decision-making factors of drivers.

- Stock Market Response to Block Trades

Corporate Finance Project: Analysed the impact of block trades on stock market prices, through **regressions** and financial **Time Series Analysis** in **Python** and **Stata**.

- Tax Reforms after Sanctions

Macroeconomics Project: Analysed the impact of tax reforms in post-sanctions economies by solving advanced **macroeconomic simulations** in **MATLAB**.

Education

University College London (UCL)   Sep 2020 - Jul 2021
Economics   Master of Research

Sharif University of Technology   Sep 2017 - Jul 2019
Economics   MSc

Skills

Python (Pandas NumPy Scikit-learn), Advanced SQL, R

Microsoft Azure, Tableau, Excel, MATLAB, Cloud Platforms, Git, Jira

A/B Testing, Statistical Modeling, Causal Inference, Data Analysis, Data Visualisation, Time Series Analysis, Financial Analysis, ETL

Cryptocurrency Markets, FinTech, Compliance Reporting