

# Behrad Zabihi

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## Experience

### Data Scientist

Nov. 2023 – Present

Informed Solutions

Manchester, UK

- Automated Scottish farmers' funding validation with a multimodal ML pipeline deployed on AWS (Llama, LLaVA, Bedrock, Textract), cutting review time from 2 weeks to real-time and achieving an F1 score of 0.91.
- Built a scalable ETL pipeline using Airbyte and DBT to extract and link EPC and postcode data for 65,000 households in the Isle of Wight, powering an interactive map for household-level EPC insights.
- Built a Power BI dashboard enabling real-time data-driven decisions for delivery managers and recruiters.
- Communicated complex AI/ML concepts to both technical and non-technical stakeholders.

### Data Science Placement

Jun. 2023 – Sep. 2023

Informed Solutions

Manchester, UK

- Developed an NLP pipeline for keyword extraction and summarisation of structured and unstructured data.
- Improved topic extraction using BERTopic and LLM-based techniques.
- Used GPT and LangChain to summarise urban planning cases, cutting manual review time by 60% and reaching a BERTScore F1 of 0.84.

### Data Scientist

Jun. 2022 – Aug. 2022

Mizan Gostaran Sharif

Tehran, Iran

- Scaled resume parsing system from 26K to 500K+ CVs using a custom NLP pipeline for entity extraction.
- Improved job recommendation by clustering CVs using UMAP + HDBSCAN for semantic similarity analysis.

### ML Research Assistant

Feb. 2021 – Jul. 2021

Sharif University of Technology

Tehran, Iran

- Modelled Covid-19 propagation network using time series and statistical modelling on 100k global cases.
- Identified key influencers in the global propagation graph by inferring inter-country transmission rates.

## Selected Projects

### Agentic Quantitative Trading | OpenAI SDK, CrewAI, MCP

Aug. 2025 – Sep. 2025

- Developed a full-stack agentic engineering team using CrewAI to automate software development.
- Built a trading simulation platform with agent-driven trading and real-time market data.

### Generative AI Price Prediction Agent | RAG, Fine-tuning (QLoRA), Agentic Workflows

July. 2025 – Aug. 2025

- Fine-tuned an open-source LLM with QLoRA and integrated RAG for ensemble price prediction.
- Built an agentic workflow to fetch live listings and alert users to bargain opportunities in real time.

### Co-Op Bakery Daily Forecasting | Time-Series Forecasting, Optimisation, Python, R

Dec. 2022 – Jan. 2023

- Cleaned and transformed raw sales data to engineer over 25% new predictive features, then trained time-series models (GLM, LSTM, SARIMA) to forecast daily bakery demand and reduce waste, achieving an  $R^2$  of 0.67.

## Education

### Lancaster University

Lancaster, UK

MSc in Data Science, **Distinction (top 2.5%)**

Oct. 2022 – Sep. 2023

### Sharif University of Technology

Tehran, Iran

BSc in Computer Engineering, **Gold Medalist, National Olympiad in Informatics**

Sep. 2016 – Jul. 2021

## Skills

**Programming Languages:** Python, R, C/C++, C#, SQL (MySQL, PostgreSQL)

**Machine Learning:** Scikit-learn, PyTorch, TensorFlow, Keras, Hugging Face, Pandas, NumPy, SciPy

**NLP:** Transformers, LLM

**Visualisation:** Power BI, Matplotlib, Seaborn

**Cloud & Tools:** AWS, Azure, Docker, Git, Hadoop

**Languages:** English, French, Persian