Amir Mohammadikarbalaei



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Data Scientist Portfolio Bath



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SUMMARY

Detail-oriented MSc Data Science student with a proven track record of achieving results. Through participation in Kaggle competitions and projects, I have developed a profound appreciation for the transformative power of data in any business. The dynamic field of data science, demanding adept problem-solving and creative thinking, resonates deeply with me. I am passionate about using AI and machine learning to address real-world problems, aiming to make a positive impact on humanity by harnessing the power of cutting-edge technology. Eager to contribute my skills and knowledge to a forward-thinking organisation that values innovation and offers opportunities for continuous learning and personal growth.

EDUCATION

2026

MSc Data Science with professional placement

1

2024

2020

2017

University of Bath

- · Engineered machine learning algorithms, including but not limited to Random Forest and Deep Learning models, from scratch, achieving a deep understanding of their underlying principles.
- Mastered advanced concepts in statistics and probability theory, applying them to optimise machine learning solutions.
- Delivered multiple end-to-end machine learning projects, leveraging best practices in software development and deployment.

BEng (Hons) Mechanical Engineering

Newcastle University

- Developed a strong foundation in advanced Statistics and Mathematics, building essential skills for quantitative analysis and data-driven problem-solving.
- Collaborated with diverse, multidisciplinary teams during the MATE ROV Competition, achieving key project milestones and leading Newcastle University's team to its first-ever qualification for this prestigious international competition.

EXPERIENCE

Data Scientist - Al Healthcare Applications

Simplifine, Y Combinator Start-up, San Francisco, California, US

Feb 2024 1

Dec 2023

Skills: Python · Machine Learning · Large Language Models · Transformers · Streamlit · Start-up

Developed an innovative application utilising localised language models (LLMs) to improve healthcare communication for

Played a key role in securing Y Combinator funding by delivering a product that significantly optimised healthcare workflows, showcasing substantial value to investors.

Collaborated with multidisciplinary teams to gather user insights, ensuring the application aligned with user needs and industry standards.

Data Analytics Trainee

Generation UK and Ireland, Leeds, UK

Jan 2024

Oct 2023

Skills: Python · Data Analytics· ETL · SQL · Power BI · SQL · Data Analysis · Team Leadership · Stakeholder Management

· Performed in-depth analysis of the Olist dataset (Brazilian e-commerce platform) using Power BI and SQL to identify key drivers of customer satisfaction. Created detailed reports and interactive dashboards, presenting actionable insights and recommendations.

Led two project teams, guiding them through interim and final projects, fostering collaboration and deep understanding, resulting in full marks for both teams.

Collaborated with the instructor to mentor and teach less-experienced learners, providing guidance on essential data analytics concepts and best practices.

Independent Data Scientist

strategies.

Oct 2023

https://amirmohammadikarbalaei.github.io/DataScience.github.io/

Skills: Python \cdot Leadership \cdot Power BI \cdot SQL \cdot Database Management \cdot Microsoft Excel

Sep2020

- Applied time series forecasting and classification techniques to detect and analyse EEG biopotential signals. Utilised unsupervised learning to cluster retail customers based on purchasing behaviour, enabling effective targeted marketing
- Implemented O-learning to train an autonomous agent in OpenAl's Gym environment simulations.
- Competed in Kaggle's "Detecting Sleep State" competition, conducting exploratory data analysis and feature engineering to develop and train robust classification models.