



# AMIR MOHAMMADI



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[GitHub](#)



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[Portfolio](#)



Leeds

## PROFILE

Mechanical Engineering graduate with a strong focus on results and attention to detail. Enthusiastic about AI techniques, with demonstrated aptitude through personal projects and academic studies. Seeking a challenging role in an innovative organization that values ongoing learning and growth.

## SKILLS

- Python (Numpy, Pandas, Scikit-Learn, TensorFlow)
- SQL
- Power BI
- Tableau
- ML & AI – including Reinforcement learning
- NLP- (nlTK, sentiment analysis)
- Computer Vision - Object detection
- GitHub
- Docker
- Excel

## EXPERIENCE

### Data Analytics Trainee

Oct 2023 – Jan 2024

Generation UK and Ireland, Leeds

- Guided two teams in completing interim and final projects, fostering a comprehensive understanding among team members, and offering support. Attained a score of 100% on both projects through effective leadership and collaborative efforts.
- Employed Python and related libraries, such as NumPy, Pandas, and Matplotlib for systematic data exploration and manipulation.
- Conducted comprehensive analysis of various datasets, utilizing Power BI and SQL. Investigated key business aspects affecting customer satisfaction and generated detailed reports and dashboards.
- Collaborated with the instructor to deliver lessons and guide less experienced learners in acquiring skills for data analytics roles. Provided mentorship by offering explanations and guidance on key concepts.

### Independent Data Scientist

Sep 2020 – Oct 2023

[Visit my website](#)

Following university graduation, I encountered an employment restriction due to immigration challenges. During this period, I took a proactive approach by investing time in advancing my skills in Python, SQL and engaging in Kaggle competitions.

- Utilised time series forecasting and classification techniques to detect and analyse EEG biopotential signals. Achieved accuracy 2.5X of random guessing.
- Applied unsupervised learning to cluster retail shop customers based on purchasing behaviour and preferences, enabling targeted marketing strategies and improved customer experiences.
- Implemented Q-learning to train an autonomous agent for gameplay in Gym environment games.
- Competed in the Kaggle competition hosted by the Child Mind Institute, focused on "Detecting Sleep State." Engaged in thorough exploratory data analysis (EDA) and comprehensive feature engineering to develop and train classification models.

## EDUCATION

### BEng (Hons) Mechanical Engineering

2017-2020

Newcastle University , First Class

### Engineering Foundation year

2016-2017

Bellerbys College Brighton