

Azam Din

Experienced and commercially minded Engineer with an analytics and data science specialism.
Expertise in e-mobility, data-acquisition and test engineering.

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Skills

- Excellent numerical and analytical competence.
- Commercial big-picture awareness.
- Data mining + reporting.
- Resourceful in research.
- Observant of how others consume information.
- Detail oriented.
- Deeply computer literate.
- Trusted in leadership.

Tools

- Python
- SQLite
- Pandas, NumPy
- Google Cloud, BigQuery
- Scikit-learn
- Matplotlib, Seaborn
- Linux, Windows
- GIT / SVN
- Matlab
- MS Excel, MS Project

Data modelling

- Linear Regression
- Logistic Regression
- K-nearest Neighbours
- Support Vector Machines
- Decision Trees
- Random Forests
- XGBoost

Interests

- Passionate about Automotive tech, in particular electric vehicles.
- Photo/videography is a hobby, including computer graphics, video editing.
- Architecture and design.
- DIY woodworking and fabrication projects

Currently Learning

- Deep Learning, Neural Networks
- Google Cloud Platform

Personal Projects

- **MOT data analysis:** ([Link](#)) Using GOV.uk data I created an SQL database from 37mil MOT test records. Explored trends in UK vehicle ownership including features like age, mileage and brands. Performed data cleaning, mining and exploratory model building. (Tools: SQLite, Pandas, Seaborn, Scikit-learn).
- **Used car valuation model:** ([Link](#)) Built a web-scraper to gather data from 1000 AutoTrader adverts, using this to create a used car valuation model to help me price my own car for sale. (Tools: BeautifulSoup, Pandas, Seaborn, Scikit-learn).

Professional experience

05/2019 - present Testing Project Engineer Doosan Babcock, Glasgow

- Engineering consultancy role in physical testing for Nuclear and Oil & Gas sectors.
- Lead engineer and project manager of €1.6mil. subsea client pipe reeling test programme.
- Led the development of cutting-edge inspection technique for full scale DIC strain mapping.
- Coded Python tools for transforming >1mil. scanned data points into engineering results.
- Completed 20+ invoiceable technical reports/documents, issued to clients.
- Led several technical issue resolutions including distillation of complex technical details of the test programme, to senior management.
- Worked closely with the Business Development team to secure a €500k contract extension.

04/2015 - 04/2019 Technical Strategy Analyst Jaguar Land Rover, Warwickshire

- Regularly reported/presented data on competitor benchmarking and industry trend analysis in the e-mobility space to the Engineering Director.
- Identified a gap in company-wide access to real world EV and shared mobility usage profiles.
- Led deployment of a 4G telematics data pipeline for a fleet of 10 electric I-PACE taxis which resulted in 500k+ miles of driving data being made available across information silos.
- Liaised with the legal team to anonymise location data for GDPR compliance.
- Worked with the analytics team to build a live tableau dashboard for executive reporting.
- Developed and maintained a Simulink EV physical model for competitor range prediction.
- Storyboarded and directed a video to internally promote the company's long-range vision of an autonomous, connected and electrified future for the auto industry.
- Successfully presented a business case for a smart living technology demo project.
- Delivered a prototype of a robotic premium EV charger in partnership with a start-up.

09/2015 - 03/2017 Vehicle Dynamics Engineer Jaguar Land Rover, Warwickshire

- Steering control system development, test data-acquisition and analysis for products including XE, Evoque, I-PACE.
- Responsible for maintaining and extending the functionality of a business critical Matlab code library for time-series analysis of vehicle test data, including automated processing, visualisation and metrics.
- Built a suite of Matlab-based graphical tools for automation, increasing team productivity and driving quality and consistency of steering feel across all product lines.

Education

2010 - 2015 MEng Mechanical Engineering with Aeronautics - 1st class with Distinction Uni. of Strathclyde, Glasgow

- **Modules:** Engineering Analysis and Numerical Modelling, Linear Algebra, Six Sigma, Computational Fluid Dynamics, Thermodynamics, Structural Mechanics,
- **Clubs & Societies:** Manager and treasurer of the University Formula Student racing team. Lead 50+ students to design, fabricate and compete in our own race car at Silverstone and Hockenheim F1 tracks.