

Huw Fulcher

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INTRODUCTION

Hi, I'm Huw, a Data Scientist with extensive experience working with clients to identify how best data can transform their business.

My career so far has taken me from delivering cutting edge Data Science advancements at the Office for National Statistics, leading and developing the Data, Analytics & Insights service line for Appnovation, a global full service consultancy to now forming and leading the Data Science discipline for Admiral Financial Services Limited.

SKILLS

- Deep experience with Python and packages such as Pandas, NumPy, scikit-learn and Keras
- Experience with Docker and deploying backend services using FastAPI/Django/Node.js
- Proficient in software development principles & agile development methodology
- Experience with setting up and utilising some AWS services (Lambda, S3, EventBridge, CodeBuild/CodePipeline, Sagemaker)
- Some Solutions Architecture experience (specifically AWS)

EXPERIENCE

Lead Data Scientist, Admiral Financial Services: May 2021 – Present

Responsibilities

- Leading the newly formed Data Science function to utilise Machine Learning in the lending process
- Build an industry leading team of Data Scientists and MLOps Engineers
- Empower the team to realise our company's objectives through Machine Learning
- Establish our Data Science process, governance, tools and ways of working
- Identify areas of value to unlock via Machine Learning

Achievements

- Implemented an end-to-end MLOps platform on AWS in 4 months, enabling rapid deployment & redeployment of models
- Coordinated a cross-group data sharing agreement in the last 6 months of a 3-year process. Agreement will enable cross-sell and advanced decisioning.
- Upskilled a team of graduates to effectively use Git and MLOps pipelines

Data Scientist (Senior Consultant, Appnovation: Jan 2020 – May 2021

Responsibilities

- First Data Scientist for Appnovation tasked with developing and leading the new data specialism across advice, strategy formulation, planning and implementation
- Responsible for establishing the data practice alongside existing Experience & Technology service lines through close

collaboration with teams and clients to rationalise, direct and solve data problems in a holistic manner.

Achievements

- Identified radical shift in consumer behaviour due to COVID-19 crisis for a Belgian national retailer, allowing the client to quickly pivot operations to cater to new needs.
- Identified and created a high level data engineering solution for a global pharmaceutical company. The design involved combining web analytics data across multiple brand websites using AWS Glue, Redshift & Looker.
- Worked extensively with UX researchers to provide a global tyre brand guidance and insight into data-driven of a new service taken to market. Delivered a clear assessment of the possibilities and limitations of data-driven components to provide a roadmap for further development.

Data Scientist, Office for National Statistics: Sept 2017 – Jan 2020

Responsibilities

- Identify where improvements can be made to statistical processes using Data Science
- Explore new concepts in Data Science that can be leveraged to produce statistics
- Share knowledge of Data Science, Data Engineering and Software Engineering within the organisation to improve capability

Achievements

- Improved Gradient Boosted Tree model in flagship system from 96% accuracy to 98%. Met regularly with non-technical product owner to explain changes and improvements.

- Used open-source data to produce a time-series model of Consumer Confidence to aid macro-economic statistics.
- Consulted on a high-profile project involving the creation of a new statistic on loneliness. Provided guidance on creation of ETL pipelines for geo-spatial data and produced a Python library for converting geo-spatial data to Machine Learning features.
- Regularly delivered highly demanded training seminars on Machine Learning and ETL pipelines in PySpark.
- Delivered guest lectures at Cardiff University on Data Science

EXPERIENCE

Cardiff University – MSc Data Science & Analytics (Distinction), 2016-17

- Awarded a full scholarship based upon the strength of my application
- Dissertation: Siaradus – Automatic Sentence Generation using Deep Learning

Swansea University – BSc Computer Science (1st Class Honours), 2013-16

- Dissertation: Continuous Graph Visualisation