

Rowan McDonald

Junior Data Scientist



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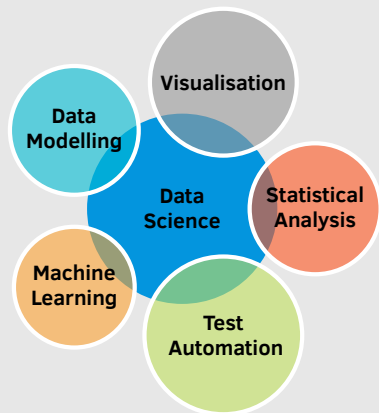
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/in/rowanmcd

Skills

Overview



Languages

Beginner

Advanced

HTML5 • Python

SQL • \LaTeX

JavaScript

Tech

Python - Scikit-learn • NumPy • Scrapy
• Pandas • Gensim • Flask • Dash •
Beautiful Soup • Virtual Environments

JavaScript - React • TypeScript

Database - MongoDB • Relational DB
• SQL

General - AGILE • Docker • HTML •
LaTeX • CSS • Scrum • Git

Statistics - LSI • LDA • kNN • LOGIT
• MLE • AR • MA • ARIMA

Summary

An energetic individual interested in analysing data to bring clarity on otherwise murky problems. With a strong statistical background in economics from academia and drive to learn.

Experience

Mar 2018 - Present **Junior Data Scientist**

Acrotrend

- Currently involved in building, optimizing and researching natural language processing models in Python for customer insights and analytics.
- Assisted in developing a pilot app that utilised results from semantic analysis models built within Acrotrend. Completed in a single Sprint in a team of 4, this required efficient task management and teamwork to allow clear communication.
- Designed and implemented an ordinal model evaluation procedure for semantic analysis.
- Led User Acceptance Testing on developed products and ran walk-throughs for colleagues on new software.
- Produced infographic pieces for client dashboards.
- Contributed to the in-house wiki, assisting in the sharing and creation of best-practices.

Sep 2017 - Mar 2018 **Research Assistant**

Swansea University

- Collected and prepared over 50,000 data points from public and private sources.
- Produced Convergence and Club Clustering regression models based on open-source packages for Stata.
- **Tools:** SQL, Stata, Eviews, RATs, Excel

Education

2014 - 2017 **BSc Economics & Finance** (First Class Honours)

Swansea University

- Performed highly in all Econometric modules (>73%), producing forecasts and regressions using Holt-Winters, Time Series Decomposition, LOGIT, and ARIMA methodologies.
- Mentored 5 students throughout my final year, ranging from Economic to Statistical theory.
- Acted for the School of Management as the College Representative, making me responsible for representing the views of more than 2,000 students.
- **Extra:** Won the backing of the Dean, Director of Finance and a business start-up competition at the School of Management, Swansea for my own café.

Research

Sep 2017 - Mar 2018 **Area** Dr Chowdhurys' work on Regional House Price cycles in the UK

- Conducted analysis on historical time series house pricing data to define detailed, regional level house price cycles, which was the first paper of its kind at the time.
- Collected, cleaned and transformed data, due to the historical data being fragmented across multiple external sources.
- **Tools:** SQL, Stata, RATs, Excel