Mr Mitchell Murphy

Nottingham, UK

+44(0)7540 425 502 | hi@mwtmurphy.com | www.mwtmurphy.com

Experience

Data Scientist - Product
Footfalls & Heartbeats
Dec 2017 – Present

- Created ETL scripts to optimise data exploration and developed Jupyter notebooks for exploratory data visualisation, reducing time to insight by 8 hours, on average, per product test cycle.
- Developed business and technical requirements for POC project. Implemented lean start-up methodology, reducing time to project conclusion by 75%.
- Created regression model with Scikit-Learn to solve MVP production accuracy volatility. Rectified violation of model assumptions, implementing CV, TDD and CI practices to validate present and future models.
- Created info-visualisations to optimise insight reporting for Engineering and Design teams. Developed design system with Figma, leading to appointment as tech lead for software engineering and design.
- Initiated POC sprints and code review sessions to optimise product development and improve code health. Removed siloed analytics development and reduced development time to 2-week iterations.

Data Scientist - Product
Spotlight Data
Jan 2017 – Nov 2017

- Created NLP algorithm with NLTK and SpaCy for client document metadata labelling. Optimised environment setup with back-end developer using Docker, reducing container build time by 30%.
- Completed A/B tests to optimise user questionnaire. Co-designed integration into MVP product with front-end developer using Figma, reducing number of questions by 80%.
- Created 3D info-visualisation pipeline for client sensor data. Utilised polynomial interpolation to enrich data and created interactive reports with R, allowing the client to easily convey test cycle results to customers.

Projects

Dirta Science
Open source project
Oct 2019

- Automated project architecture setup for data science projects, removing manual setup time for: CI, virtual environments, makefiles, environment variable management and CRISP-DM documentation

Kerbot
Open source project
Present

- Integrating film, survey and critic review data to develop a recommendation algorithm based on personal film preferences tied to preferred critic
- Using PostgreSQL, Cron/Airflow, Python3, BS4, OMDb and TMDb APIs

Education

MSC Financial and Computational Mathematics
Distinction
University of Nottingham
Oct 2015 – Jan 2017

- Organised and directed 12-hour Major League Hacking hackathon. Volunteered and competed in multiple hackathons.
- Mentored 3 5-person pharmacy student teams for their business simulation module competition. Automated user feedback visualisation with Excel to isolate areas from improvement. All teams finished 1st place for their respective sub-groups.

BSc Finance and Investment
1st Class Honours
University of Brighton
Sep 2011 – Aug 2014

- Supervised 20 student traders as Investment and Trading Society President. Initiated mentoring sessions using Excel for improved technical analysis and systematic trading. Won national and international trading competitions.

Skills

Agile, Docker, Figma, Git, JIRA, Jupyter, Lean, Numpy, NLTK, Pandas, Python, R, ScikitLearn, SpaCy