

Professional Experience

Feb 2020 - **Associate Data Scientist**, Nectar360, J Sainsbury plc, London.

Description Deliver a variety of end-to-end data science projects that applied regularly to a customer base of 20 millions with 40 millions of daily data inflow. As the modelling expert for a department with 50+ analyst, provide technical consultancy and coaching sessions. Internally marketing of data science solutions to management team.

Projects Fraud Detection; Introduction of generic NLP solutions for all available text data across the business; Data pipeline setup for partner and external data suppliers (Argos, CitrusAds, and Dynata); user-based Recommendation system for user targeting with 1.4 million pounds of monetary flow; a collection of attribution models both for an award-winning campaigns evaluation for clients and for internal evaluations; review and update of legacy churn prediction model.

Courses

2018–2019 **MSc Artificial Intelligence**, The University of Edinburgh, Merit.

Core Modules: NLP (>70), Data Mining, Machine Learning Practical, Reinforcement Learning (>70), Machine Learning and Pattern Recognition, Informatics Research Review & Proposal (>70)

Dissertation: Application of Prospect Theory and Regret Theory on the Development of a Consensus Support System, Merit, Aug 2019

2015–2018 **BEng Electronic and Electrical Engineering**, The University of Sheffield, First.

Core Modules, Feedback System Design, Semiconductor Electronics, Digital & Analog Circuits Design Engineering Software Design, Micro-controller Programming, FPGA Architecture Design.

BEng Project, Characterisation of AlAsSb APDs in Communication, Distinction, Jun 2018.

Activities, Initiator of Sheffield Macau Society (2018 summer). Co-Founder of Sheffield Artificial Intelligence Society at Sheffield (2016-). Award-winning business case writer for unmanned aircraft system (UAS) challenge by IMechE (2016). Secretary of Sheffield Entrepreneurs Society (2016-2017).

Technical experience

Languages Python, SQL, R, Matlab, Java, JavaScript, C++(just began), German (level-B1).

Technology AWS platform (EC2, Sagemaker, S3, Lambda, Batch, etc), CircleCI, Google Cloud Platform (Compute Engine, Cloud Storage), Google Analytics, IBM Watson APIs, Docker, Elasticsearch, Spark.

Side Projects & Continuous Learning

Coursera "Big data, Genes and Medicine", "Covid-19 Contact Tracing", "Drug Discovery", "Understanding the Brain: The Neurobiology of Everyday Life", etc.

NLP zoo Building a Data App to aggregate the applications of different NLP models. (i.e. SpaCy models, BERT and GPT-2).

Rap generator Acquiring > million of song lyrics via web crawling, with a variety of NLP algorithms to build a pipeline to learn to eventually provide suggestions for composer.

Toastmasters Vice President of Education to design, organise and improve non-profit public speaking events with 20+ speakers on average per week, organise contests up which could eventually lead to a global stage in US, inspire members to progress on the learning paths. Act as the deputy president when situation required.

For more <https://haydncci.github.io/>

Reference

Prof. Stuart Anderson, The University of Edinburgh, soa@staffmail.ed.ac.uk.

Relationship: Dissertation supervisor

Prof. John David, The University of Sheffield, j.p.david@sheffield.ac.uk.

Relationship: Final year design project supervisor