

Tom Merritt Smith

Senior Data Scientist. Researcher. Leader.

07828624188

tmerrittsmith@gmail.com

tmerrittsmith.github.io

EXPERIENCE

Caspian Ltd — Senior Data Scientist

SEPTEMBER 2018 - PRESENT

Led a team of 8 data scientists to deliver a machine learning driven transaction monitoring system in a global bank. Built a negative news analysis pipeline using aspect based sentiment analysis with BERT and Spacy. Developed a range of machine learning models in python, using sklearn, keras, and other packages, including fraud detection models, and identifying features of financial transactions such as affordability and the purpose of transactions. Significant experience in managing client relationships.

NHS BSA — Junior Data Scientist

SEPTEMBER 2017 - SEPTEMBER 2018

Led a multi-disciplinary team to deliver a solution to a GDPR compliance risk on a minimal budget and timeframe. Identified ~£5 million of savings in my first project. Created a multi-label text classification model with individual labels reaching 96% accuracy, and 77% of all documents being perfectly classified, saving hundreds of man hours. Learned R in 2 months, quickly and confidently creating models and a range of graphics, as well as using presentation tools such as RShiny and Flexdashboard. Extensive experience with SQL in a Star-schema database. Organised and delivered training sessions for the team in advanced R programming and natural language processing techniques.

The ID Co. — Data Science consultant

JUNE 2016 - JUNE 2017

Worked remotely on a weekly basis with the product team at a FinTech startup in Edinburgh. Using Python, Pandas, and Azure-Spark to analyse data for a number of purposes, ultimately focused on improving the product for customers, users, and potential leads. Regularly advised on both the strategy of collecting data, as well as the strategy and implementation of analysis approaches.

Heaton Manor School — Various Roles

Data Strategy Lead - January 2016 - September 2017

6th form Learner Experience Manager - October 2012 - Jan 2016

Teacher of Mathematics - September 2010 - September 2017

SKILLS

Fluent in R, python, SQL

Built models using tensorflow, spacy, sklearn, glmnet, MLR

Experience with Docker and Luigi for deployment

Team leadership and project management experience

EDUCATION

M.Ed Practitioner Enquiry
PGCE Mathematics
Newcastle University

Focus on workplace learning and methods of assessment

M. A. Mathematics
Edinburgh University
(Upper second class)

Linear Algebra, Pure and Applied Analysis, Several Variable Calculus, Differential Forms

Self study

CS224n - Natural Language Processing with Deep Learning - Stanford

CS231n - Convolutional Neural Networks for Visual Recognition - Stanford

Mathematics for Machine learning - Deisenroth et. al 2019

