Ryan Pollard

MSC STATISTICS QUALIFIED DATA SCIENTIST WITH OVER SEVEN YEARS EXPERIENCE ACROSS DIFFERENT INDUSTRIES.

Manchester, UK

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Technical Skills

Coding	Analytics	Software	Markup Languages
R, Python, SQL, SAS, Stata, HTML, Tensorflow	Machine Learning, Predictive Modeling, NLP, R Shiny, Time Series	Jupyter Notebook, AWS, Snowflake, Quicksight, Sagemaker, Pycharm, GIT, SAS, Streamlit, Docker, Google Cloud Run	HTML, LaTeX, RMarkdown

Freelancer profile link: www.upwork.com/freelancers/rypoll

Current employment

Tinka (Fintech)
Working remotely

DATA SCIENTIST
Feb 2022 - Present

- Working in a deferred payments company applying state of the art machine learning techniques on large datasets.
- Implementing end-to-end machine learning pipelines in AWS and Databricks.
- Design and analysis of experiments.
- Driving the collection of new data and refinement of existing data sources to increase model performance.
- Technical skills used: Python, SQL, Spark, AWS, Databricks.

Education

University of Sheffield
Sheffield, United Kingdom

MSC STATISTICS
Sept. 2020 - Sept. 2021

- Machine Learning: Scikit-learn, Keras, Neural Networks, Supervised and Unsupervised learning.
- R Shiny.
- Time Series.
- Bayesian Statistics.
- Dissertation: Sentiment Analysis using Topic Modelling of Twitter data and it's impact on the stock market.

University of Manchester
Manchester, United Kingdom

BSC MATHEMATICS
Sept. 2007 - Sept. 2010

- Various statistical and probability modules elected.

Work Experience

Freelancer w/ various clients
Remote

DATA SCIENTIST
Jun. 2021 - Feb. 2022

- Deployment of predictive models, data science tools and visualisations with various clients.
- 100% Job Success Rate and Top Rated Freelancer.
- NLP: Sentiment Analysis, Information Retrieval, spaCY dependency trees (Information Retrieval), Search Engines.
- Build of Machine Learning Models.
- Web Scraping.
- R Shiny Dashboards - Dockerised for deployment.
- Medical Statistics.
- Created a Neural Network using ensemble methods in order to predict gene behaviour.
- Dockerised the model into an R shiny application - allowing for users to upload new training data.
- Segmented bicycle-hire review data using LDA Topic Modeling and t-SNE in order to identify issues specific to certain regions.
- Involved in the building of a search engine that spans across medical literature in order to visualise aspects mentioned in the papers and how they correlate with other mentions (Network analysis).
- Built a predictive model that predicts which new independent sellers on an auction website are likely to have success in the future in order to determine what type of assistance sellers could benefit from, maximising their returns.

Various schools   *Colombia | China*

MATHEMATICS TEACHER | TRAVELING   *Jan. 2018 - July 2020*

- Teaching Mathematics in Colombia and China.
- Travelling through Central/South America and Asia.

The Co-Operative Bank   *Manchester, United Kingdom*

SENIOR RISK MODELER   *Feb. 2016 - July 2017*

- Leading projects, communicating progress and new ideas with stakeholders, planning and executing the data-lead projects.
- Developing and maintaining credit risk statistical models.
- Analysing and investigating risk modesl, giving a greater understanding of how each one works within its portfolio, and how it can be improved.
- Running and creation of model dashboards.

British Gas   *Manchester, United Kingdom*

PREDITCTIVE MODELER   *Mar. 2014 - Feb. 2016*

- Building scorecards and ensuring their accuracy and compliance with model assumptions.
- Built a contact model that served to find the best method of communication with customers in order to recoup debt most effectively.
- Creation and running of MI of models.
- Identifying opportunities, engaging stakeholders and building models such that the models improve processes within the business to recoup money more efficiently from the debt portfolio.

Adelphi Real World   *Manchester, United Kingdom*

STATISTICIAN   *June 2011 - October 2013*

- Undertaking different types of statistical tests on medical data that later went onto publications and medical journals in order to highlight pharmaceutical benefits and market opportunities.
- Various medical statistical techniques used with a focus on accuracy and obeying model assumptions, such as Survival Analysis, T-tests and other tests.
- Cleaning data to get it in a form to be tested.

Certifications

Databases and SQL for Data Science with Python   *Coursera*

Natural Language Processing: Machine Learning NLP In Python   *Udemy*

Publications

- *A cross-national examination of the association between behavioral, psychological, cognitive and functional symptoms on quality of life of people with Alzheimer's disease.* **R. Pollard**, A. Duhig, Sube Banerjee, S. Hass, J. Jackson.

- *Impact of morning symptoms experienced by COPD patients on exacerbation risk, rescue inhaler usage and normal daily activities.* **Ryan Pollard**, Mark Small, Sarah Broomfield, Steve Fermer.

Languages

- Spanish: B2 (Common European Framework of Reference for Languages: A1/A2: Basic User. B1/B2: Independent User. C1/C2: Proficient User)