Christian Payne

Experienced Data Scientist

London, U.K.

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About Me

I am a data scientist with experience working within agile data science teams to deliver impactful insights from sensitive data at pace.

Experience

Senior Data Scientist

Croydon, U.K.

Home Office

March 2023 - October 2023

- Worked within the network analytics team in Data Services and Analytics (DSA) Data Science
- Attached to a product with >10,000 users accross a variety of government departments and agencies
- Responsible for a network analytics based investigative tool
- Introduced multithreading to increase pipeline performance and explored the use of a ML classifier to identify relevent events from unstructured text data
- Participated in a number of internal hackathons focussed on synthetic data generation and computer vision image classification tasks

Operational Researcher

Westminster, U.K.

Home Office

August 2021 - March 2023

- Member of the Government Operational Research Service (GORS) within Home Office Analysis and Insight (HOAI)
- Working within the crime and justice portfolio covering a variety of crime types including homicide, drugs, sexual offending, and domestic abuse
- Led and produced multiple pieces of quantitative analysis for a variety of internal and external stakeholders, including Ministers, No. 10, the National Police Chief's Council (NPCC)

Research Apprentice

Winchester, U.K

Centre for English Identity and Politics

2018

- Assigned to work for 3 months alongside Prof. John Denham on a project examining ethnic diversity within St. George's day promotional materials.
- This project primarily involved collecting data, conducting analysis, and writing a research report.

Education

London School of Economics and Political Science (LSE)

London, U.K

MSc Political Economics

2019 - 2020

- A quantitative course in economics and politics with a focus on research design and statistical modeling
- Courses include: Applied Regression (Distinction), Causal Inference (Distinction), Game Theory (Merit), and Applied Machine Learning for Social Scientists (Merit)
- Overall Grade: Merit

University of Winchester (with a semester at Westminster College, U.S.A)

Winchester, U.K & Missouri, U.S.A

BA (Hons.) Philosophy, Politics, and Economics (Major: Economics)

2016-2019

- Final Year Modules: Public Economics, International Economics, and Politics of the Post-Crash Economy
- Dissertation: An econometric evaluation of the Mincer model of earnings determination as a factor behind the UK gender pay gap (Top economics dissertation of the year)
- Overall Grade: First Class Honours (US GPA: 3.93)

Skills

Technical skills

Coding Languages	Software	Other
R – Python – SQL – HTML – Bash – Cypher	RStudio – PostgreSQL – DBeaver – PGAdmin – Elasticsearch – Neo4j – MongoDB – Drone – Kubernetes – Drone	Git – Markdown – GitLab – Jira – Opensearch

Courses

2022	Foundations of OR: Essential OR Skills for Practitioners	*Operational Research Society*
2022	Understanding the Workings of Government	*LSR*
2022	Analytical Oral Briefings & Presentations	*LSR*

Memberships and Awards

2022	Member	*Operational Research Society*
2021	Member	*Royal Statistical Society*
2018	Winchester Scholar	*University of Winchester*
2018	Richard B. Koch Essay Prize (Finalist)	*Institute for Economic Affairs*

Portfolio Projects

Premier League Match Prediction

- Built a Premier League football match prediction model using web scraped data.
- This involved building a reproducible data engineering pipeline and training a result classification model.

UK Election Forecasting

- Worked on a model to predict the outcome of a future UK general election.
- This project involved the matching data from multiple sources and building a model.

Lord Of The Rings Character Network Analysis

- Created a LOTR character network analysis using the SpaCy entity detection model and NetworkX library.
- Visualised these networks using HTML widgets

Voter Segmentation Analysis

- Worked on an unsupervised cluster model using voter data
- Visualised these clusters using Principal Components Analysis

Friends TV Show Scene Generation

- Generated a scene from the TV show Friends using an LSTM Neural Network
- Involved cleaning the data and building the model