



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 -

- Worked within the network analytics team in Data Services and Analytics (DSA) Data Science

Senior Data Scientist

Croydon, U.K.

HOME OFFICE

March 2023 - October 2023

- Attached to a product with >10,000 users across 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 relevant 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

COURSES

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

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