# **James Vine**

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### **EXPERIENCE**

#### **Bournemouth University**

Research Assistant (Data Science)

Nov 2024 - May 2025

Bournemouth, UK

- Designed & delivered full-stack meta-learning data application as part of Horizon EU Program (ExtremeXP) , enabling interactive ranking/comparison of dataset similarity via statistical analysis as part of two-person team.
- Built recommendation system, returning best-performing models/parameters from analysis of historically similar datasets.
- Presented outputs within research group (professors, postdocs, PhD students). Invited to present remotely to ExtremeXP conference in Oslo.

Cabinet Office Sep 2023 – Sep 2024

(Placement) Data Scientist

Whitehall, London, UK

- Developed cross-collaboratively two critical end-to-end data pipelines as part of two-person teams, each earning prestigious In-Year Awards at Department (2023) & Secretariat (2024) levels:
  - Integrated multidimensional data from 3+ gov departments, with time-series forecasting and geospatial analysis for weekly briefings to UK Chief Medical Officer, UK National Statistician & 30+ directors.
  - Leveraged AWS infrastructure, creating Python data pipelines to process/visualise real-time data from 5+ departments, creating interactive dashboards for ministers, special advisers & military leadership.
- Led cross-gov analyst meetings, alongside gov/parliament/private sector consultations for data-sharing projects. Delivered internal upskilling sessions to enhance team capabilities and industry awareness.

(Secondment) Data Engineer, Cabinet Office Data Engineering

- Implemented automated scheduling system with email alerts, tracking analytical products, reducing delays & ensuring timely deliveries of senior gov briefings.
- Enhanced full-stack infrastructure serving 100+ high-level civil servants across Cabinet Office, 10 Downing Street, and ONS using Django, Docker & Git. Focused on OOP, architectural patterns, unit tests, code quality & performance, and agile workflow with Jira.
- Developed LLM-driven chart summarisation system with RAG for 320+ visualisations for internal platform, ensuring WCAG accessibility and key insight extraction.

(Corporate Contribution) Data Operations, National Situation Centre

Twin Atlas Feb 2022 – Jan 2023

(Part-time) Software Engineer

Remote - Nevada, US

- Engineered weekly updates to front & back-end feature architecture for live game, supporting team to win Annual Innovation Award for Best Creative Direction @ 2022 Industry Developer Conference.
- Optimised existing codebase & features, refactoring 30K lines of code affecting testing & live production databases driving performance increase for mobile platforms affecting over 6.8M users.

Sonar Studios May 2020 – Feb 2022

(Part-time) Technical Artist

Remote - Nevada, US

- Re-designed UI & UX user experience through complete rebrand of game interface, increasing player engagement with interface functionality by 47% affecting 9M MAU across computer, console & mobile.
- Collaboratively produced game maps through Blender, World Machine & Photoshop, supporting team to win Annual Innovation Award for Favourite Map @ 2021 Industry Developer Conference.

B&Q Oct 2019 – Jun 2020

(Part-time) Hardware Customer Advisor

Southampton, UK

- Proactively approached customers, identifying sale opportunities and delivering tailored advice for DIY, hardware & home improvement project goals.
- Maintained product knowledge, stock levels and inventory management across Building & Hardware departments.



#### **Bournemouth University**

BSc (Hons) Data Science and Analytics

**Sep 2021 – Current** *Bournemouth, UK* 

- Grade: (Predicted) First Class Honours
- **Key Coursework**: Application Programming (94%), Deep Learning (92%), Tools of Data Science (90%), Data Management (82%), Principles of Programming (81%), Data and Databases (81%), Machine Intelligence (80%), Systems Design (72%), etc
- Science & Technology Academic Excellence Scholarship

• **Dissertation**: Civic Sage **!**: Full-stack, deployed, RAG LLM service to provide sourced, up-to-date political data on MPs, generating summary multi-dimensional insights at Parliamentary constituency level. Key technologies: Python, Streamlit, Pandas, Plotly, AWS (S3, DynamoDB, Lambda, ECR), LangChain, BERTopic, Presidio, Pinecone, Pytest

Fareham College Sep 2018 – Jun 2020

National Extended Diploma in IT

Fareham, UK

• Grade: Distinction\*, Distinction\*, Distinction\*, top of cohort

## F TECHNICAL SKILLS

**Languages** Python (Frameworks: Django, Flask, Streamlit), SQL, Lua

Data ProcessingPandas / Geopandas, BeautifulSoup4Data VisualisationAltair, Plotly, Matplotlib, NetworkX

Machine Learning scikit-learn, TensorFlow / Keras, NLP (NLTK, Gensim, BERT), LangChain

Collaboration GitHub, Docker, Jira, Methodologies (SCRUM, TDD, BDD)

Infrastructure AWS (DynamoDB, S3, Bedrock, Lambda, ECR), pytest, Sentry

Document Prepara-

tion

Pandoc, LaTeX