George Paul

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Data Science MSc student with a strong foundation in mathematics and a growing specialisation in machine learning for impactful, real-world applications. Experienced in developing interpretable, audit-aligned models to support transparency and traceability across complex systems. Seeks opportunity to apply data science and machine learning to deliver actionable insights and drive meaningful outcomes. Motivated by innovation, committed to using data for positive change.

EXPERIENCE

Greenplace, Data Scientist Intern — London / Remote June 2024 - Present

- Contributed to emissions estimation using Bayesian techniques and data traceability pipelines.
- Developed the GreenPlace Index (GPI) to quantify building energy performance, now used in internal carbon monitoring.
- Built predictive models with geospatial data to assess carbon risk in offices.
- Engineered features from 150k+ row dataset to improve EUI model accuracy
- Created visual simulations comparing system dynamics and agent-based models of carbon feedback loops.

Buro Happold, Physics and Sustainability Intern — Bath June 2019

- Conducted thermal simulations on buildings to model energy usage.
- Gained experience in physical modelling and sustainability- focused engineering processes.

Pong Cheese Ltd, Warehouse Assistant — Bath July 2018 - December 2023

- Managed warehouse operations during university breaks, processing 1000+ daily orders, and coordinated other employees.

Self Employed, Tutor — Bath and remote July 2018 - June 2024

- Taught mathematics and statistics, helping students reach A/A* grades through concept simplification and structured guidance.

PROJECTS

Bayesian Energy Use Estimation (MSc Research 2025)

- Designed a hierarchical Bayesian model to estimate energy intensity in offices.
- Integrated prior knowledge and emissions factors to support confidence-weighted scoring.
- Linked model outputs to reporting workflows for traceable audit-ready carbon risk insights.

Bayesian Neural Network - Supplier Emissions Data

- Predicted supplier emissions with uncertainty using a Bayesian Neural Network.
- Ranked top 10 high-risk suppliers by combining emissions and posterior uncertainty.
- Supported risk-prioritisation (e.g., 343,162 ± 32,221 $kgCO_2e$).
- Link to source code.

SKILLS

Core: Machine Learning, Bayesian Inference, Reinforcement Learning.

Tools & Languages: Python, SQL, Git, Docker, PyTorch, TensorFlow, JAX, NumPy, Scikit-learn.

EDUCATION

MSc Data Science - University of Bath (2024-2025)

GPA: 84.5% | Key Modules: Machine Learning (91%), Statistics (94%), Bayesian ML (95% current), Reinforcement Learning (82% current).

BSc Mathematics - University of Manchester (2021-2024)

2:1 | Focus: Statistics, Programming, Modelling.