

About Me

Data professional with a background in academic laboratory research and translational neuroscience, alongside experience in data engineering and applied machine learning. My recent independent work uses biomedical knowledge graphs and path-based link prediction to investigate gene relationships, with an emphasis on evaluation, graph context, and explainability. I also bring experience building data workflows and helping technical teams understand and apply complex methods.

I'm looking for an AI/ML research or applied data science role where I can combine my biomedical background with modelling and data engineering to investigate meaningful questions in healthcare and drug discovery. I'm particularly interested in teams that bring scientific and technical perspectives together and turn research ideas into useful tools.

Skills

- ✓ Python & R
- ✓ NLP & Machine Learning
- ✓ Scikit-Learn, OpenCV
- ✓ TensorFlow/PyTorch
- ✓ APIs/Web-scraping
- ✓ Cloud Computing (GCP, AWS)
- ✓ GenAI
- ✓ Excel
- ✓ SQL
- ✓ Power BI, Tableau
- ✓ Docker
- ✓ HTML/CSS
- ✓ Microsoft Power Platform
- ✓ Google Scripts (JS)
- ✓ Git and Github
- ✓ Automation/Unit Testing
- ✓ Data Integration
- ✓ ETL Pipelines
- ✓ CI/CD Pipelines
- ✓ Project Management
- ✓ Analytical problem solving
- ✓ Collaboration
- ✓ Data Visualisation & Storytelling
- ✓ Communication

Certifications

MLOps, DevOps, AWS, GCP, Machine Learning, AutoML, TensorFlow

Ashray Shetty

Data Engineer & Scientist

[LinkedIn](#) | [GitHub](#) | [Projects](#)

Experience

Independent AI/ML Research and Mentoring | 2026-Present

- Built an exploratory link-prediction [workflow](#) using OptimusKG and BioPathNet to investigate gene-gene relationships around NLRP3 and LGALS3. Prepared the graph, separated background and supervised links, and evaluated rankings on withheld recorded interactions.
- Ranked 732 candidate NLRP3 partners and compared model results with gene-degree and shared-neighbour measures. Inspected highlighted graph paths to examine what recorded context might inform a prediction and where the evidence remains uncertain.
- Collaborating with a doctoral researcher in Australia on a posture-assessment research prototype. My current contribution focuses on synthetic datasets and database design for the proposed computer-vision, risk-assessment, and LLM-feedback workflow.
- Privately mentor students and professionals on data and technical projects, supporting their practical skills and communication of results.

Director of Data Analytics Programme Curriculum; Professional Development Expert; Data Engineering | 2022 - 2026

Corndel | Remote

- Led development of a bespoke Google Level 4 data analytics apprenticeship programme, translating technical and business requirements into a structured learning pathway.
- Designed workshops and modules for Level 5 Data Engineering apprenticeship, including data integration, data security, dataform, ML pipelines, and architecture.
- Mentored graduate consultants through applied data projects and helped them communicate technical decisions to stakeholders.

Lead Coach / Community Champion ; Data Coach | 2020-2022

Multiverse | Remote

- Mentored 35 data apprentices across industries, supporting applied projects shaped by organisational goals and stakeholder requirements.
- Created an interactive Python textbook with live coding exercises for Multiverse's RISE learning platform, and developed curriculum in Python, SQL, data warehousing, cloud computing, and visualisation.
- Developed and delivered a data webinar series reaching more than 100 apprentices, making technical topics accessible to learners with varied backgrounds, [webinar link](#).

Science Teacher

05/2018 - 09/2019

Brampton Manor Academy | London

- In addition to teaching science, leveraged data-driven insights by creating a PowerBI dashboard to monitor and enhance student commitment to learning, facilitating targeted interventions and effective teaching strategies.

Research Assistant

02/2015 - 07/2017

Blizard Institute | London

- Developed simulation models to study drug-receptor interactions.
- Analysed gene-expression results from qPCR and supported siRNA knockdown experiments.
- Contributed to collaborative research on Galectin-3 and inflammation following traumatic brain injury.
- Research publication: Yip et al., "Galectin-3 released in response to traumatic brain injury acts as an alarmin orchestrating brain immune response and promoting neurodegeneration," Scientific Reports 7, 41689 (2017). DOI: [10.1038/srep41689](#).

Education

MSc (Neuroscience & Translational Medicine) - Merit

2013 - 2014

Queen Mary University | London

BSc (Biomedical Sciences) - 2:1

2008 - 2011

Roehampton University | London