

Vikas Vyas

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PROFESSIONAL SUMMARY

MSc in Health Data Science from UCL with 3+ years building end-to-end AI/ML pipelines for healthcare. Specialised in NLP, RAG, and statistical modelling to solve clinical problems like disease trajectory variance and rare disease genomics using Python, PyTorch, and SQL.

WORK EXPERIENCE

AI and Automation Consultant | Velectron Consulting, Chennai | Oct 2026 - Present

- Automating internal communications of a major steel plant in Chennai with AI agents.
- Developed an end to end data collection and dashboarding platform to highlight key KPIs and alert the management of critical alerts.
- Tools/Skills: Claude Code, API integration, MCP, Python

Data Science Intern | Swansea University, Swansea | Jun 2026 - Sep 2026

- Improved cohort linkage quality by 15-20% by designing a matching algorithm on Splink for multi-source health datasets in the SAIL databank.
- Increased non-technical user accessibility to linked data by developing a Streamlit application for visualising complex outputs.
- Established a reproducible analytical pipeline ensuring 100% consistency in version control and documentation standards.
- Built and hosted a local LLM chatbot on Hugging Face using Qwen 2.5 with a RAG pipeline grounded in Splink documentation to prevent hallucinations.
- Tools/Skills: Python, Splink, SQL, DuckDB, Streamlit, Gradio, RAG, PyTorch, Tensorflow

Consultant | ACESO Global Health Consultants, Remote | Jan 2026 - Jun 2026

- Developed an open-source data analytics platform to assist mental health practitioners by interpreting multi-source council-level health data.
- Communicated geographic and demographic health disparities to stakeholders by producing R-based visualisations of multi-source datasets.
- Conducted comprehensive literature reviews and data synthesis to inform evidence-based health data strategies for NIHR-funded projects.
- Tools/Skills: R, Python, Excel, Report writing, Literature review

Co-Founder & AI Engineer | Glo, London | Mar 2025 - Jan 2026

- Built an AI tracker in Python with PostgreSQL that anonymously notifies partners of STI contacts based on incubation windows to control transmission.
- Rapidly shipped a user-facing app for sexual health using Lovable and built a medication tracker for patients.
- Raised initial round of funding from academic investors at UCL after taking the MVP from zero to 100 real users.
- Tools/Skills: Python, Pytorch, Tensorflow, HTML, PostgreSQL, Lovable

Postgraduate Researcher | UCL Institute of Health Informatics, London | Jan 2025 - Aug 2025

- Quantified variance in disease trajectories for rare disease and oncology patients by conducting advanced statistical analysis on Genomics England EHR datasets.
- Mapped prevalent disease patterns of oncology patients by analysing pathogenic genes using Python, R, and the NetworkX library.
- Established a secure, reproducible research framework for large-scale genomics data by implementing Git version control and Bash-based scripts.
- Tools/Skills: SQL, Python, R, Bash, Jupyter Notebooks, Git

Market Research Analyst | Triomics, Bengaluru | Feb 2022 - Mar 2024

- Spearheaded the migration of an end-to-end clinical data pipeline into BigQuery SQL, increasing data accessibility and query efficiency by 100%.
- Developed a novel benchmarking framework for an Oncology LLM-based clinical product, increasing model quality control accuracy by 25%.
- Accomplished efficient classification of clinical trial inclusion criteria by creating an Oncology decision-tree framework for breast cancer staging.
- Tools/Skills: BigQuery SQL, Python, VBA, Excel, Google Sheets, Pivot Tables

Postgraduate Consultant | Oncology One, Melbourne | Mar 2021 - Dec 2021

- Built sales forecasting and financial models in Excel using DCF and Net Present Value methods for assessing the commercial viability of 3 oncology drugs.
- Built a dashboard for comparison on key metrics like patent strength and validity, and drug ranking.
- Tools/Skills: Excel, Patent Analysis, Sales Forecasting, Market research

EDUCATION

University College London, United Kingdom | MSc. Health Data Science | Sep 2024 - Sep 2025

University of Melbourne, Australia | MSc. Biotechnology | Feb 2020 - Dec 2021

University of Rajasthan, India | BSc. Chemistry Hons* | May 2016 - June 2019

TECHNICAL SKILLS

- Programming Language: Python, R, SQL, Bash (Linux), C#, Streamlit
- Data Analysis and Visualisation: Tableau, PowerBI, Excel, Google Sheets, Matplotlib, Seaborn
- Core Competencies: Advanced Statistics, Machine Learning, Artificial Intelligence, NLP, RAG, Agentic AI, PyTorch, Tensorflow

AWARDS & ACHIEVEMENTS

- Finalist at Harvard University Health Systems Hackathon - Global | May 2025
- 1st place at Harvard University Health Systems Hackathon - London | Apr 2025
- 2nd place at RSM Digital Health Hackathon - London | Mar 2025
- 3rd place at UCL & Carradale Futures Hackathon - London | Nov 2024