

HARSH MALHOTRA

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PROFILE

AI & Data Science professional with strong Business Analytics expertise. Skilled in Python, SQL, ML, LLMs, NLP & CV. Experienced in building scalable pipelines and end-to-end analytics solutions that turn data into actionable insights. Strong problem-solver and collaborative communicator with solid stakeholder-management and leadership skills.

PROFESSIONAL EXPERIENCE

Panavision UK

Jun 2025 – Aug 2025

Project Consultant – AI (Capstone Project)

- Engineered a geospatial analytics web application (React + Python API) integrating shipment data with dynamic routing algorithms, enabling real-time visibility and optimisation across UK delivery routes, reducing empty-mile travel by 12%
- Automated cost and CO₂ models via server-side Python, uncovering 15% cost savings and 8% emission-reduction opportunities
- Delivered a unified sustainability dashboard for stakeholders, improving visibility into operational performance

PricewaterhouseCoopers (PwC)

Jul 2023 – Jul 2024

Associate – Technology Consulting (AI & Analytics)

- Designed and deployed a Generative AI multilingual chatbot using REST APIs, React, and LLMs, improving citizen access to government schemes and increasing engagement by 25%, received the PwC GenAI Innovation Award 2023
- Built a computer-vision healthcare platform (CNN + Flask API) for cataract detection via smartphone images, improving screening speed by 60% and boosting adoption by 22% across 1M+ users
- Automated e-service reporting workflows using Python APIs and Power BI, reducing manual effort by 70% and improving turnaround time by 30%
- Collaborated with doctors, designers, and government stakeholders to deliver WCAG 2.1-compliant digital interfaces, demonstrating strong communication and cross-functional teamwork
- Translated complex user requirements into actionable technical specifications, enabling smooth execution of high-impact, analytics-driven digital solutions

Intern – Technology Consulting (AI & Analytics)

Jan 2023 – Jul 2023

- Developed Python + Streamlit dashboards to track campaign performance, improving budget targeting accuracy by 18%
- Implemented predictive analytics to support decision-making, delivering performance dashboards to senior stakeholders
- Built an NLP-based case analysis system (BERT, TextRank) to summarise and cluster legal cases in Hindi and English, cutting precedent search time by 30%

Dun & Bradstreet

Jun 2022 – Sep 2022

Intern – Analytics

- Built a credit risk analysis model with real-time datasets using Python, Excel, and SQL, improving risk assessment accuracy by 6%
- Cleaned, transformed, and standardized 5+ large datasets, improving data quality and enabling faster, more reliable insights

EDUCATION

Imperial College London

Aug 2024 – Aug 2025

MSc in Business Analytics (Grade: Upper Merit)

Developed expertise in machine learning, optimisation, and business analytics to solve complex real-world problems

Relevant modules: Optimisation & Decision Models, Data Wrangling, Network Analytics, Data Structures, Experimental Design

- Member of Consulting Club and Technology Club, Imperial College Business School | Actively participated in workshops and events

Vellore Institute of Technology

Jul 2019 – Jul 2023

Bachelor of Technology in Computer Science and Electronics Engineering (CGPA: 9.01/10)

Relevant modules: Machine Learning, Computer Vision, Data Mining, Probability, Statistics, Operating Systems, Linear Algebra

- Co-Founder & VP, Tech Researchers Club – Established a 100+ member technology community, leading initiatives and events
- Technical Team Member, IEEE Computer Society – Contributed to technical workshops and collaborative student projects

SKILLS

- Data Analysis & BI** – SQL, Power BI, Tableau, Excel, Google Analytics (GA4), A/B testing, regression & time-series analysis
- Programming & Data** - Python (NumPy, Pandas, scikit-learn), R, REST APIs, Git
- Machine Learning & AI** - Predictive modelling, clustering, NLP, Generative AI (GPT, RAG), CNNs, fine-tuning
- Data Engineering & Cloud** - Kubernetes, Render, ETL/ELT pipelines, GCP, AWS
- Collaboration & Tools** - Jira, Confluence, Postman, GitHub (Agile & Waterfall delivery)
- Business & Consulting** - Stakeholder engagement, requirements gathering, client communication, cost-benefit analysis, business case development, translating analytics into business outcomes

ACHIEVEMENTS & PROJECTS

- **Sentiment Analysis of Airbnb Reviews (Imperial, 2025)** – Predicted review sentiment with 85% accuracy using TF-IDF and NLP in Python, generating insights for marketing strategy
- **Energy Analytics (Imperial, 2025)** – Modelled demand response adoption in Orkney, forecasting household savings and designing policy recommendations for renewable integration
- **Healthcare Analytics - Peer Support & Depression (Imperial, 2025)** – Analysed the Add Health dataset (4,288 observations) using logistic regression, showing peer support significantly reduces depression risk across socioeconomic groups
- **Generative AI Innovation Award (PwC, 2023)** – Recognised with a firm-wide award for developing a multilingual chatbot that improved citizen access to government services

ADDITIONAL INFORMATION

- **Leadership & Volunteering** - Co-Founder & VP of the Tech Researchers Club (100+ members) leading events and student initiatives. Volunteered as a translator at rural medical camps. Tutored students in maths and science.
- **Certifications** - AWS Cloud Practitioner, IBM Data Science Professional, Google Data Analytics
- **Languages** - English (Native), Hindi (Fluent), Tamil (Conversational)
- **Interests** - Horology, Solo Travel, Music (Trinity Grade 4 keyboards, choir performances)