

Mayank Kantharia

Melbourne | +61 0411683252 | mayankkantharia01@gmail.com | GitHub | LinkedIn | Portfolio

Profile

Master's student in Data Science with experience in machine learning, RAG systems, and backend development. Passionate about building scalable, user-focused AI solutions.

Key Skills

Programming & Frameworks: Python, R, Java, C++, Dart, TypeScript, Flask, Django, FastAPI, React, Next.js, Flutter

APIs & Platforms: REST APIs, OpenAI API, Calendar APIs (Google, Outlook), Supabase, pgvector, Firebase

Databases & Tools: MySQL, MongoDB, PostgreSQL, Git, GitHub, Postman

Visualization & BI: Tableau, Power BI, Microsoft Office

Professional Strengths: Detail-oriented, Analytical thinker, Clear communicator, Adaptable collaborator, Well-organized

Education

RMIT University, Melbourne (3.4/4 GPA)

2024-2025

Master of Data Science

Mumbai University, Mumbai

2019-2023

Bachelor of Computer Engineering (8.96/10 GPA)

Internships

TryPath | Data Scientist Intern | Capstone Project

July 2025 – Nov 2025

- Built a RAG-enhanced career guidance system using OpenAI GPT, embeddings, and Supabase pgvector for semantic retrieval.
- Delivered market-aware role recommendations contextualized by user location, including salary, experience range, and in-demand skills.
- Designed timeline-driven roadmaps with milestones, subtasks, and curated learning resources, integrated with Google/Outlook calendars and a dynamic scheduling module.
- Applied prompt engineering and explored Agentic RAG for advanced orchestration and contextual reasoning.
- Collaborated in a 5-member team using FastAPI, Next.js, and TypeScript, with strong emphasis on documentation (Notion), communication (Slack), and version control (GitHub).

Pratishtha | Backend Developer Intern | College Website/App

June 2022 – Nov 2022

- Developed a responsive website and mobile app for a college fest using Flutter, Firebase, and web technologies.
- Delivered a user-centric interface with real-time updates and cross-device compatibility, improving event engagement.
- Collaborated via GitHub and Agile workflows to streamline development and manage version control.

HireBus | Flutter Developer Intern | Mumbai

Nov 2021 – Apr 2022

- Led UI/UX development for the mobile app using Flutter, ensuring a seamless and engaging user experience.
- Integrated REST APIs to enhance app functionality and used GitHub for collaborative development.
- Implemented Firebase backend for scalable and secure data management.

Projects

Research Based Project on Deep Learning | Final Year Project | IIT Bombay

- Implemented a Few-Shot Learning model for hyperspectral image classification, leveraging high-dimensional spectral-spatial data and techniques like Temperature Scaling and Attention mechanisms to boost accuracy.
- Conducted data preprocessing and feature extraction on curated HSI datasets to address spectral-spatial limitations and improve model generalization.
- Evaluated model performance across multiple HSI benchmarks, applying cross-validation and ablation studies to assess the impact of architectural components and tuning strategies.