# Mayank Kantharia

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## 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.