

# Pratyush Mohanty

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## EDUCATION

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### Ramaiah Institute of Technology

B.E. - Electronics and Communication Engineering- **CGPA - 8.82**

**2023 – 2027**

Bengaluru, Karnataka

### Delhi Public School

Central Board of Secondary Education - **87%**

**2021 – 2023**

## PROJECTS

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### JobTrackr.Co | React.js, Node.js, TypeScript, BullMQ (Redis), MongoDB

[Source Code](#)

- AI-Powered Automated Application Tracking System
- Reduced manual data entry by 95% by architecting an event-driven system that autonomously parses Gmail user data in real-time.
- Achieved  $\approx$ 100ms UI latency by implementing a decoupled background worker service with BullMQ & Redis to handle high-volume email processing asynchronously.
- Attained 92% classification accuracy for extracting unstructured data (Company, Role, Status) by engineering a hybrid pipeline combining Regex patterns with Google Gemini LLM.
- Processed 1000+ concurrent email jobs without API throttling by designing a scalable queue-based architecture independent of the main Express server thread.

### RESEARCH QA BOT | Python, Streamlit, FastAPI, LangChain, FAISS, PyPDF

[Source Code](#)

- Developed an interactive research paper QA system using Streamlit with modular FastAPI endpoints for PDF querying and analysis.
- Implemented LangChain with FAISS vector search to enable fast embedding retrieval and efficient contextual lookup.
- Integrated Google Generative AI to generate concise, context-aware answers with high accuracy and reliability.

## EXPERIENCE

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### Harvard Delegate

**Jun 2024 – Feb 2025**

Project: Avea – APAC Product Strategy Case Study

Bangkok, Thailand

- Proposed AI-driven chatbot and recommendation features to enhance Avea's APAC product launch, contributing to case research and final pitch refinement using product, tech, and market insights from HPAIR sessions.

## SKILLS

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### Programming Languages

C, C++, Python, JavaScript

### Full-Stack Skills

HTML5, CSS3, JavaScript, Node.js, React.js, MySQL, MongoDB, Express.js, PostgreSQL, Tailwind CSS, BullMQ

### CS Fundamentals

Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management Systems

### Developer Tools

VS Code, Git, GitHub

## EXTRACURRICULAR

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- **Smart India Hackathon 2025** — Selected among **Top 30** teams in the university-level round.
- Core Member of IEEE-SPS
- Conducted lessons on technology for school students, focusing on digital literacy and practical skills
- Solved 150+ DSA problems across different platforms