

# Mohammad Alman Farooqui

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## TECHNICAL SKILLS

**Languages:** Python, C/C++, JavaScript, TypeScript, SQL, HTML/CSS

**Frameworks:** React, FastAPI, Node.js, Next.js, Flask, Express, LangChain

**Technologies and Tools:** Git, Supabase, Firebase, PostgreSQL, MongoDB, Docker, AWS EC2, RAG, TensorFlow, TF-IDF, FAISS, Hugging Face, Scikit-learn, VS Code, Jupyter Notebook, Visual Studio

**Domains and Expertise:** Natural Language Processing(NLP), Machine Learning(ML), Cloud Computing, Web Development

## PROJECTS

**CabMate** | Python, FastAPI, React, MongoDB, Docker, AWS EC2, Google Maps API GitHub — Live

- Engineered a containerized microservice architecture to structure campus mobility, reducing ride coordination time by **60%** compared to unstructured chat workflows
- Implemented geospatial querying via MongoDB and role-based access, enabling direct driver-passenger communication and **verified user safety**

**MindScribe** | React, TypeScript, FastAPI, LangChain, Google Gemini, TailwindCSS GitHub — Live

- Built a RAG-based mental wellness assistant using FAISS and Google Gemini 2.0, improving response relevance by **35%** over baseline keyword search
- Designed a responsive UI with streaming AI responses, reducing perceived latency by **40%** and increasing user session duration

**Policy LLM** | Python, FastAPI, TF-IDF, FAISS, PyPDF2, LangChain GitHub

- Developed an AI-powered insurance policy analyzer using RAG architecture to answer natural language queries from 80+ page documents
- Optimized document retrieval with TF-IDF and semantic search, reducing average query response time by **45%** (sub-4s latency)

## POSITIONS OF RESPONSIBILITY

**TEDx Manipal University Jaipur** | Core Committee (Content Team) Jul 2025 – Nov 2025

- Led speaker storytelling and promotional content strategy, improving audience engagement consistency across digital campaigns

**LITMUS MUJ** | Junior Committee (Events & Logistics) Jan 2025 – Jun 2025

- Coordinated planning and execution of literary and cultural events, supporting logistics for 10+ campus activities

## ACHIEVEMENTS

**Hackathon Finalist** Manipal University Jaipur

- Selected among the top 17 finalist teams out of 480 in a Pixel Art-based hackathon conducted by IEEE RAS MUJ
- Deployed full-stack web application within 24 hours using Netlify (frontend) and Render (backend)

## EDUCATION

**Manipal University Jaipur** Jaipur

B.Tech in Computer Science (AI & ML) — CGPA: 8.79

2024 – 2028

Relevant Coursework: Object-Oriented Programming, Database Management Systems, Data Structures and Algorithms