

# Mahajan Ashok

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Hyderabad, Telangana, India

## Profile Summary

Innovative **AI Engineer** and **Full Stack Developer** specializing in **FastAPI**, **React**, and **MongoDB**. Experienced in designing **RAG (Retrieval-Augmented Generation)** pipelines, integrating **Generative Model APIs (Gemini, LangChain)**, and building scalable, human-centric AI systems combining empathy with automation.

## Technical Skills

**Programming & Databases:** Python, JavaScript (React, Next.js), TypeScript, SQL, MongoDB, Supabase  
**AI/ML & Frameworks:** PyTorch, LangChain, HuggingFace, RAG, Generative AI, NLP, Vision Transformers (ViT)  
**DevOps & Tools:** Git, Vercel, Railway, Streamlit, Power BI, CI/CD, VS Code  
**Other:** Prompt Engineering, REST APIs, Data Visualization

## Experience

**AI Engineer Intern** **RoamVerse Solutions Pvt. Ltd. (Remote)**  
Aug 2025 – Nov 2025

- Engineered AI-driven web applications using **FastAPI** and **React**, integrating generative model APIs for multimodal automation.
- Optimized **MongoDB Atlas** queries and CI/CD workflows, reducing API latency by **30%** and supporting **12k+ requests per day**.
- Collaborated with cross-functional teams to improve inference accuracy, scalability, and reliability.

### Projects Developed:

- AI Guru Multibot** — Multilingual chatbot with self-learning and Gemini Pro Vision integration.
- AI Quiz Generator** — Adaptive quiz engine using generative APIs for dynamic question generation.
- Connect** — Secure real-time chat platform using **Socket.IO**, **JWT**, and **MongoDB**.

## Projects

**Mitra — AI Therapist & Epic Wisdom Companion** **FastAPI, React, Gemini 1.5 Flash, MongoDB, RAG**

- Built an empathetic AI therapist inspired by **Mahabharata** and **Ramayana** for student wellness.
- Implemented **RAG pipeline** using **text-embedding-004** and **Gemini-2.5-Flash** for contextual responses.

**Echoes of Mahajan** **Next.js, TypeScript, MongoDB, Tailwind CSS (Live)**

- Developed a quotes & poetry platform with SEO, AdSense integration, and dynamic admin dashboard.

**Enpenso – Expense Tracker** **React, TypeScript, Vite, Recharts (Live)**

- Created a privacy-first expense tracker with CRUD, analytics, and export options (PDF/CSV/JSON).

## Education

**B.Tech in Computer Science (Data Science)** **TKR College of Engineering and Technology, Hyderabad**  
2022 – 2026 **CGPA: 8.06 / 10**

## Certifications

- UiPath:** Automation Developer Associate (v2024.10)
- Oracle:** Generative AI Professional (OCI)
- ServiceNow:** Virtual Internship Program — SmartBridge
- Accenture:** Data Analytics & Visualization (Forage)
- IBM:** Introduction to Generative AI
- Student Tribe:** Gen AI and Advanced Prompt Engineering (Sep 2025)

## Leadership & Achievements

- Technical Coordinator:** Avinyotsav Tech Fest 2024, TKR Hack Conquest 2023, TKR Hackathon 2025.
- Represented college in **Smart India Hackathon (2023 & 2025)** and MSME Innovation Competitions.