

# Mohit Aggarwal

Bachelor of Technology – Computer Science  
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## SUMMARY

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AI Engineer with hands-on experience building production LLM pipelines, agentic workflows, and real-time voice AI systems using Groq, LangGraph, Deepgram, and RAG. Skilled in designing multi-turn LLM agents, semantic retrieval systems, and low-latency AI backends with FastAPI and Supabase for scalable, real-world applications.

## EXPERIENCE

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### ► Advize Technology Private Limited

March 2026 – May 2026

AI/ML Intern

Remote

- Integrated **gemini 3.1-flash** and **Whisper STT** via Gemini API to enable **real-time voice-based** content generation
- Developed a **multi-agent pipeline** using **LangGraph** and **LangChain** for data orchestration
- Implemented **semantic search** functionality using **vector database** and advanced embedding techniques
- Engineered **RAG pipelines** with **context-aware retrieval** and chunking to optimize retrieval accuracy
- Optimized **token usage** across LLM calls, reducing overall API consumption and costs by **35%**

### ► Lakshmi Information Technology Private Limited

October 2025 – January 2026

Full Stack Developer Intern

Remote

- Built full-stack **React Native** features, optimizing backend **REST API** payloads to **reduce server latency by 30%**
- Implemented UI components across **React web** and **React Native** mobile apps using shared style systems
- Debugged runtime **memory leaks** and rendering bottlenecks, **reducing production Android app crash rates by 15%**
- Configured automated **Google Play Store** deployment pipelines and optimized release **app bundle generation**

## PROJECTS

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### ► Quant Agent – AI-Powered Equity Research Agent [GitHub] [Live]

LangGraph, Groq (Ollama-GLM-5), Qdrant, Polygon.io API, RAG, FastAPI

- Built an **agentic AI pipeline** combining live financial data and **10-K RAG**, **reducing research time by 70%**
- Architected a **LangGraph** agent workflow with conditional routing logic to automate **multi-step risk analysis**
- Implemented **semantic search** on dense 10-K filings using **Qdrant** vector database and embeddings
- Integrated **Polygon.io APIs** and **Ollama-GLM-5** model to stream structured financial insights with **Low latency**

### ► HireAI – AI-Powered Hiring & Interview Automation Platform [GitHub]

Llama-3 (Groq API), Deepgram Nova-2 STT, NLP, Python FastAPI, Supabase, WebSockets

- Built an **AI hiring platform** automating candidate screening and interviews via **LLM-driven evaluation pipelines**
- Designed **multi-turn interview agents** with **Groq API** and JSON prompts for role-specific question generation
- Streamed audio over **WebSockets** to **Deepgram Nova-2 STT** for low-latency live transcription during interviews
- Parsed resumes with **pdfplumber** and ranked candidates (**1–10**) against job descriptions using **NLP scoring**
- Enforced session integrity via **Supabase** with **24-hour token expiry** and retake-blocking in **FastAPI**

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** Python, SQL, JavaScript, C/C++

**AI & GenAI:** LLMs (Llama-3, Gemini), Groq API Whisper STT, RAG Pipelines, Prompt Engineering, NLP

**AI Frameworks:** LangGraph, LangChain, Sentence-Transformers, Qdrant, Agno, Agentic Workflows

**Backend & APIs:** FastAPI, Node.js, REST APIs, WebSockets, Supabase, Firebase

**Tools & Platforms:** Git, GitHub, Docker, Postman, VS Code, Vercel, Google Cloud Platform

**Areas of Interest:** LLM Engineering, Voice AI, Agentic Systems, AI Hiring Automation, and Applied GenAI

## HACKATHONS & ACHIEVEMENTS

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- **Code Veda 2025 (Microsoft):** Certificate of Appreciation for organizing the national event [Certificate] 2025
- **8X National Level Hackathon Finalist:** Selected 8 times in nationwide hackathons as finalist 2025 – 2026
- **Social Summer of Code Season 5:** Mentor, guided open-source contributors and reviewed pull requests 2026

## EDUCATION

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Guru Gobind Singh Indraprastha University

Bachelor of Technology in Computer Science and Engineering, CGPA: 8.54/10

New Delhi, India