



# Madhav Gupta

## GET IN TOUCH!

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## PERSONAL DETAILS

- Current Location Jalandhar
- Date of Birth September 19, 2006
- Gender Male

## SKILLS

- Python
- C
- C plus plus
- HTML
- CSS
- Power BI

## LANGUAGES KNOWN

- English ( Both )
- Hindi ( Both )
- Punjabi ( Both )

## TEST RANKS

- JEE Mains : 47000

## EDUCATION

### Graduation

Course B.Tech/B.E. (Instrumentation)  
College Dr BR Ambedkar National Institute of Technology, Jalandhar, Jalandhar

### Class XII

Board Name CBSE  
Medium English  
Year of Passing 2024  
Percentage 86%

### Class X

Board Name CBSE  
Medium English  
Year of Passing 2022  
Percentage 94%

## PROJECTS

### RAG Chatbot, May 2025 - May 2025

- I developed a Retrieval-Augmented Generation (RAG) Chatbot during a workshop by Let's Upgrade, leveraging Ollama to run open-weight LLMs (like Llama 2, Mistral, or Gemma) locally. This chatbot combines semantic search with generative AI to provide accurate, context-aware answers from custom datasets.  
Key Features:  
? Local LLM with Ollama: Runs efficiently on your machine without relying on cloud APIs.  
? Retrieval-Augmented Generation (RAG): Augments LLM responses with relevant documents .  
? Custom Knowledge Base: Ingests PDFs, websites, or text files to answer domain-specific queries.  
? Lightweight & Privacy-Focused: Processes data locally, ideal for sensitive or offline use cases.  
Technologies Used:  
LLM: Local model via Ollama (e.g., Llama 2, Mistral, Gemma)  
Embeddings: Sentence Transformers (all-MiniLM-L6-v2) or Ollama-based embeddings  
RAG Framework: LangChain  
Language: Python  
Future Improvements:  
? Fine-tuning the local LLM for niche domains  
? Adding web scraping for real-time d