M. HEMAKESH REDDY
hemakesh8333@gmail.com | (+91) 8498081763

@hemakesh-github   @hemakesh-muppidi

PROFESSIONAL SUMMARY

A B.tech student, with a strong foundation in python, Flask, FastAPI and Data Structures and Algorithms. Solved 400+ problems on leetcode, demonstrating my problem solving skills. Experience includes building dynamic web platforms, integrating databases like SQLite and PostgreSQL, and currently working on AI-powered projects and the use of vector databases for developing applications.

SKILLS

- **Programming:** Python, HTML, CSS, JavaScript
- **Databases:** SQLite, MySQL
- **Web Development:** Flask, FastAPI, ReactJS
- **AI & ML:** Retrieval-Augmented Generation (RAG), Langchain, Qdrant (vector database)
- **Problem-Solving:** Data Structures & Algorithms (DSA)

CERTIFICATIONS

CS50x by Harvard University
Skills learned: Flask HTML SQLite Python c.

Advanced Python: Working with Databases
Skills learned: MySql PostgreSQL SQLite Python.

Generative AI for everyone by DeepLearning.ai
Skills learned: Generative AI, Responsible AI.

PROJECTS

QueryAgent
A chatbot for colleges to manage the information and answer queries related to college.
- Built a chatbot using Retrieval-Augmented Generation (RAG) with a vector database (Qdrant).
- Experimented with various embedding models and chunking strategies to optimize retrieval.
- Integrated with a REST API using FastAPI.

wiseUp
An application that allows users to create quizzes and also flashcards from a text using AI
- Utilized google gemini to create quizzes and flashcards based on users input.
- Developed a Frontend using HTML, CSS.
- Integrated google gemini model using Langchain.
- Developed a Backend using FastAPI and PostgreSQL for database.
- Git repo: Go to repository

Portfolio Website
- Developed using HTML, CSS and JavaScript and some JS frameworks for completing this project.
- Live site : Visit site
- Git repo: Go to repository

EDUCATION

Vasireddy Venkatadri Institute of Technology, Guntur,AP
B.Tech: cse with Artificial intelligence and machine learning | 2026 | CGPA: 8.7

FIITJEE, Vijayawada,AP
Class 12: MPC | 2022 | 91.4 %

EXPERIENCE

FULL STACK DEVELOPER INTERN - SSP 2000 Inc
- Developed a full-stack application using ReactJS for frontend and FastAPI for the backend.
- Optimized the frontend for a better UI/UX.