

# K DINESH REDDY

SDE Fresher • Backend Developer (FastAPI) • AI/ML Engineering

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[LinkedIn](#) | [GitHub: Dineshreddy](#) | [LeetCode](#)

## SUMMARY

Computer Science undergraduate with strong foundations in **Java (OOP)**, **Python**, **SQL**, **Data Structures & Algorithms**, **DBMS**, **OS**, and **Computer Networks**. Experienced in building **AI-powered full-stack systems** using **FastAPI**, **React**, **FAISS**, **Hugging Face Sentence-Transformers**, and **RAG with LLMs (Gemini API)**. Skilled in **REST API design**, **async pipelines**, **vector search**, **secure backend architecture**, and **performance optimisation**.

## EDUCATION

- Bachelor of Technology, Computer Science and Engineering Sep 2022 – Present (Jun 2026)
  - | - Vellore Institute of Technology – Andhra Pradesh
  - | - CGPA: 7.49/10
- Higher Secondary Education (MPC) Jun 2020 – Apr 2022
  - | - LRG Naidu Junior College, Hindupur
  - | - Percentage: 87%
- Secondary School Certificate (SSC) Jun 2019 – Apr 2020
  - | - Deepthi School, Hindupur
  - | - Percentage: 85%

## PROJECTS

- Smart AI Customer Support Chatbot — [GitHub](#)  
**FastAPI, React, FAISS, RAG, Sentence-Transformers (Hugging Face), Gemini LLM API**
  - | - Built a production-ready AI chatbot using **Generative AI + RAG** to deliver context-aware responses for customer support queries.
  - | - Implemented **FAISS vector search** with dense embeddings for high-speed semantic document retrieval.
  - | - Added sentiment analysis to automatically escalate negative or urgent user queries to human operators.
  - | - Developed a responsive React UI integrated with a FastAPI backend and structured REST APIs.
  - | - Improved end-to-end latency by ~30% using async pipelines and FAISS optimisation.
- Employee and Task Management Platform (Full Stack) — [GitHub](#)  
**FastAPI, React, PostgreSQL, JWT Auth, Role-Based Access Control**
  - | - Built a full-stack employee/task management system with JWT-secured **Admin & Employee** roles.
  - | - Implemented PostgreSQL-backed CRUD operations and optimised SQL queries.
  - | - Developed protected React dashboards with dynamic routing and responsive components.
  - | - Designed structured, maintainable FastAPI REST endpoints with async support.

## SKILLS

- | - Programming Languages: Java (OOP), Python, SQL
- | - Core CS Concepts: DSA, OOP, DBMS, OS, CN, Time Complexity
- | - Backend: FastAPI, REST APIs, Async APIs, JWT Auth
- | - Frontend: React, HTML, CSS
- | - Databases: PostgreSQL, SQLite
- | - AI/ML: RAG, LLMs (Gemini API), FAISS, Sentence-Transformers
- | - Tools: Git, GitHub, Postman, VS Code

## CERTIFICATIONS

- IBM — GenAI Using Watsonx (2025) — [Certificate](#)
  - | - Learned foundation models, prompt engineering, and end-to-end GenAI development workflows using Watsonx tools.
- Oracle — OCI 2025 Gen AI Professional — [Certificate](#)
  - | - Validated expertise in building, deploying, and securing generative AI workloads on OCI using responsible AI practices.

## ACHIEVEMENTS & ACTIVITIES

- | - Built **2 full-stack applications** (including an AI chatbot) for practical learning and demonstrations.
- | - Active on **LeetCode & CodeChef**; regularly practice DSA and problem-solving in Java/Python.
- | - Strong in **debugging**, backend logic design, and API performance optimization.