G.VIDYA SAGAR

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Profile Summary

Python Developer experienced in building scalable and high-performance backend systems using FastAPI and SQL-based databases. Proficient in designing RESTful APIs, writing optimized queries, and improving database efficiency for data-intensive applications. Adept at integrating Machine Learning models into production-ready backend environments to deliver intelligent, data-driven solutions.

Education

VNR VJIET   APRIL 2024
Bachelor of Technology   *hyderabad, telangana*

Technical Skills

Languages: Python, SQL

Frameworks & Libraries: FastAPI, Flask, TensorFlow, Keras, PyTorch, Pandas, NumPy, Scikit-learn, Matplotlib

Web Technologies: HTML, CSS, JavaScript, React

Databases: MySQL, PostgreSQL, Schema Design, Optimized SQL Queries, Indexing, Joins,

Machine Learning & AI: Supervised Learning, Unsupervised Learning, LLM ,Feature Engineering, Data Preprocessing, Model Training & Evaluation, Regression, RAG, Neural Networks, CNNs

Backend & API Development: RESTful APIs, FastAPI, Flask

Version Control & Deployment: Git, GitHub, Docker (Basics), Postman, Vercel, netlify

Projects

AI-Powered Resume & Job Matcher API | *Python, FastAPI, PostgreSQL, TensorFlow*   **GitHub**

- Developed a FastAPI-based backend service to intelligently match candidate resumes with job descriptions using deep learning and vector similarity techniques.
- Built and deployed a Sentence-BERT–driven embedding pipeline for resume and job text processing, enabling accurate similarity scoring and ranked candidate–job matching.
- Integrated PostgreSQL with SQLAlchemy for efficient data storage and retrieval, optimizing query performance and reducing API response time.
- Containerized the application using Docker and tested RESTful APIs with Postman, improving scalability, deployment consistency, and overall system reliability.

Shadow Query – The Data Conspiracy | *FastAPI, PostgreSQL, React*   **GitHub**

- Built a full-stack SQL mystery game using FastAPI, PostgreSQL, and React, enabling users to solve a data-sabotage case through real SQL queries and database exploration.
- Designed and implemented an 8-table relational database schema (employees, commits, deployments, data_audit, chat_logs, etc.), demonstrating advanced SQL concepts including complex joins, CTEs, and window functions.
- Developed a secure FastAPI backend to execute sandboxed read-only SQL queries, validate user-submitted clues, and dynamically unlock progressive game levels.
- Implemented role-based access and query validation logic to prevent unsafe SQL execution while maintaining an interactive learning experience.

Certifications

- Python Programming
- Machine Learning Certification – Oracle
- Full Stack Web Development Certification – Teks Academy