


Vidya Sagar Garikapati

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SUMMARY

Entry-level Python Developer with a strong passion for building intelligent and scalable applications using FastAPI, SQL, and Machine Learning. Skilled in developing RESTful APIs, optimizing database performance, and integrating AI models with backend systems. Eager to apply technical expertise and problem-solving skills to contribute to innovative AI and backend development projects.

EDUCATION

VNR VJIEET (Bachupally, Hyderabad)
Bachelor of Technology

2020 - 2024

SKILLS

Programming Languages: Python, R, SQL.

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

Web Technologies: HTML, CSS, React, Javascript, Flask

Database Management: MySQL, PostgreSQL, schema design, writing optimized SQL queries, indexing, joins, stored procedures, and query performance tuning.

Machine Learning & AI: Supervised and Unsupervised Learning, Feature Engineering, Model Training & Evaluation, Data Preprocessing, Regression & Classification Models, Neural Networks, CNNs, Hyperparameter Tuning, Model Deployment.

Backend & API Development: Building RESTful APIs with FastAPI and Flask, integrating ML models into APIs, request validation, authentication, error handling, and JSON-based communication.

Version Control & Deployment: Git, GitHub, Docker (basics), API testing with Postman, deployment using Flask/FastAPI servers.

PROJECTS

AI-Powered Resume & Job Matcher API

- **Tools:** Python, FastAPI, PostgreSQL, SQLAlchemy, TensorFlow, spaCy, Sentence-BERT, PyPDF2, Docker, Postman.
- Developed a **FastAPI-based backend** that matches candidate resumes with job descriptions using **deep learning and vector similarity models**.
- Built and deployed a **Sentence-BERT-driven model pipeline** for efficient text embedding, similarity scoring, and ranking of candidate-job matches.
- **Containerized and optimized** the application with **Docker**, improving scalability, query performance, and API response speed.

Sales Insight & Reporting API System

- **Tools:** Python, FastAPI, PostgreSQL, SQLAlchemy, Pandas, Docker
- Built a **data analytics backend** to process and store sales data, enabling real-time business insights using advanced SQL aggregations and joins.
- Developed **RESTful APIs** (FastAPI) to expose analytics endpoints such as daily revenue, top products, and regional performance.
- Optimized **SQL queries and schema design** for faster data retrieval, leveraging window functions and indexing strategies.
- Containerized and deployed the system with **Docker**, ensuring scalability and reproducible analytics across environments.

Shadow Query – The Data Conspiracy

Tools: FastAPI, PostgreSQL, React, HTML, CSS, SQLAlchemy, Docker, psycopg2

- Built a **full-stack SQL mystery game** using **FastAPI, PostgreSQL, and React**, where users solve a data-sabotage case through real SQL queries and database exploration.
- Designed and implemented an **8-table relational schema** (employees, commits, deployments, data_audit, chat_logs, etc.) showcasing complex joins, CTEs, and window functions.
- Developed a **secure FastAPI backend** to execute sandboxed read-only SQL queries, validate clues, and dynamically unlock new game levels.

CERTIFICATIONS

- Python Programming
- Machine learning from Oracle.
- Fullstack Web development certificate from Teks Academy