VIGNESHWARAN S

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Profile

B.Tech Information Technology student with hands-on experience in LLM and Generative AI application development using Python, Ollama, PostgreSQL, FastAPI, and Streamlit. Strong interest in Large Language Models, Generative AI, NLP, and Agentic AI, with experience building practical AI applications and data-driven solutions. Seeking an LLM-focused opportunity to contribute to real-world AI application development.

Education

Kongu Engineering College **2024 – 2028**
B.Tech in Information Technology *8.12/10 CGPA*

Bharathi Balamandir Matric Higher Secondary School **2023 – 2024**
Higher Secondary Certificate (HSC) *89.83/100*

Projects

Sovereign AI Workbench | *Agentic AI, Generative AI, LLMs, Ollama, Python* **2026**

- Built an **on-premise Agentic AI platform** for confidential industrial intelligence using locally hosted LLMs without external cloud APIs.
- Designed **agentic and multimodal workflows** for industrial data analysis, task orchestration, and context-aware decision support while preserving data privacy.

github.com/Vignesh14007/sovereign-ai

GenAI Natural Language-to-SQL Smart Power Grid Monitoring | *Python, Ollama, PostgreSQL, Streamlit* **2026**

- Built a **Generative AI-powered Natural Language-to-SQL system** using Ollama LLMs to query and analyze smart-grid power data without manual SQL.
- Integrated **Ollama, PostgreSQL, and Streamlit** to generate, execute, and visualize queries across transformer, feeder, voltage, current, and energy data.

github.com/Vignesh14007/smart-grid-genai

AI Daily Planner Agent | *Python, FastAPI, PostgreSQL, n8n* **2025**

- Built an **AI task-planning agent** that organizes weekly schedules and automates task reminders through intelligent workflow orchestration.
- Developed **FastAPI REST APIs** with PostgreSQL and n8n to manage tasks, persist schedules, and automate notifications.

github.com/Vignesh14007/CLUE

Technical Skills

Programming Languages: Python, Java, SQL

Generative AI & LLM: Generative AI, Large Language Models (LLMs), NLP, Agentic AI, LLM Applications

AI & Machine Learning: Artificial Intelligence, Machine Learning, Scikit-learn

AI Tools & Automation: Ollama, n8n

Backend & APIs: FastAPI, Flask, REST APIs

Data Science: Pandas, NumPy, Data Analysis

Databases: PostgreSQL, MySQL, MongoDB, Firebase

Developer Tools: Git, GitHub, Postman, VS Code

Areas of Interest

Generative AI & LLMs, Agentic AI, Natural Language Processing, Artificial Intelligence & Machine Learning, AI Automation, Data Science & Analytics

Certifications & Achievements

Introduction to Generative AI — IBM SkillsBuild

National Level Hackathon — DataXSpace, KPR College of Engineering, Coimbatore

National Level Hackathon — Panimalar Engineering College