C. VISHAL

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Profile Summary

I am a driven Computer Science student specializing in Data Science with hands-on experience building scalable backend systems and intelligent applications. My focus areas include Retrieval-Augmented Generation (RAG), AI pipelines, and modern frameworks such as Fast API and PostgreSQL. My journey includes serving as a Data Analyst Intern at ISS and Project Intern at Infosys Springboard. With strong passion for creating solutions that merge automation, usability, and performance, I thrive in collaborative, cloud-ready environments.

Experience

Project Intern - Infosys Springboard
Developed a backend water-quality monitoring system using FastAPI and PostgreSQL, integrating real-time global APIs and custom datasets to support NGO, admin, and user workflows. Implemented predictive alerting and automated analysis using NumPy and schedulers, delivering trend visualizations and early-warning insights through dynamic graphs and dashboards.

Data Analyst Intern – ISS
Leveraged Power BI, Excel, and SQL to design dashboards and reports that improved decision-making efficiency and applied statistical analysis and automation techniques to streamline workflows.

Technical Skills

Languages: Python, Java, C, JavaScript, HTML, CSS, React
AI & Machine Learning Generative AI, LLMs, RAG, Prompt Engineering, Model Deployment (Pipelines)
AI Tools & Frameworks: LangChain, Hugging Face, OpenAI APIs
Database & Backend: PostgreSQL, DBMS(SQL), Firebase, FastAPI (REST APIs, JWT Authentication)
Tools: Git and Github, VS Code, Anaconda Environment, Google Colab
Data Analysis Tools: Power BI, Tableau

Projects

Campus Connect – Full-Stack Role-Based Web Platform
(React, Firebase, JavaScript, HTML/CSS)
- Integrated Firebase Auth and Firestore for secure login and real-time data sync.
- Developed a scalable campus communication platform with role-based access control and event registration, notices and integrate all the organization resources together.

LUNA – GenAI Powered Terminal Assistant
(Python, LangChain, OpenAI)
- Developed a Python-based GenAI-powered terminal assistant that integrates with the command prompt to track commands.
- Implemented real-time explanations of executed commands using Generative AI for learning and documentation and designed time and session-based logging to generate automated reports and improve workflow insights.

Publication

Research Paper Published: "Voice Assistant – An Artificial Intelligence Speech Recognition Module that Trains the Machine to Perform Tasks Using Speech Recognition", EPRA International Journal of Multidisciplinary Research (IJMR), March 2022.

Certification

I have completed Industry Level Certifications at Deloitte, TCS from Forage and skill development certification from Infosys.

Education

B.Tech in Computer Science   **CGPA: 8.45/10.0**
Kalasalingam Academic of Research and Education   2023 – 2027