Siri Chandana Tammineni
Gen AI Engineer
Web Developer | Java Programmer
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Professional Biography

Gen AI professional with 1-year track record in leveraging Generative AI, Machine learning, Data Science to drive impactful solutions. My expertise lies in building and deploying Machine learning models, optimizing workflows, and delivering data-driven insights. Passionate about solving business problems using data-driven insights and AI innovations. With a strong foundation in both classical ML and modern AI, I aim to drive impactful solutions across domains.

Education

- SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN   *2020-24 | CGPA : 8.65*
  BTech | Artificial Intelligence and Data Science (AIDS)

- NARAYANA JUNIOR COLLEGE   *2018-20 | CGPA : 9.59*
  INTERMEDIATE | MPC

- BHASHYAM ENGLISH MEDIUM SCHOOL   *2017-18 | CGPA : 10.0*
  SSC

Skills Summary

Domain Expertise:
- Machine Learning
- Generative AI
- Data Science
- Agentic AI

Programming:
- C/C++
- Python
- Java
- JavaScript (Basics)
- OOPS through Java

Frameworks:
- Pandas
- NumPy
- Flask
- Scikit-learn
- Lang Graph
- Lang Chain

Web Skills:
- HTML
- CSS
- React

Database:
- DBMS
- SQL

Tools:
- VS code
- Git
- Jupyter Notebook
- Ollama models
- Hugging Face models
- Azure

Others:
- Cloud Computing
- RAG
- Embedding
- NLP

MS Office Tools:
- Word
- Power Point
- Excel

Experience

SMARTKNOWER | *Web Development*
Aug 2022 – Sep 2022 | Part-Time Intern

- Developed a Weather Station.
- It will display Temperature, Weather and Current Location of a specified place.

SMARTINTERNZ | *AI-Powered by Google*
June 2023 – Aug 2023 | Part-Time Intern

- Developed Natural Disasters Intensity Analysis and Classification using AI.
- In this Project can be able to predict natural disaster from webcams.

Projects

CODE REVIEWER
Present

- Designed and developed an AI-powered Code Review platform using ***Lang Graph*** agents, integrating modular agents for code quality analysis, bug detection, improvement suggestions, test case generation, and optimization.
- Implemented chunking and semantic embedding pipelines using ***Recursive Character Text Splitter*** and the ***all-MiniLM-L6-v2*** embedding model to convert uploaded or GitHub-hosted code into vector representations, stored in a ***FAISS*** index for fast and accurate code retrieval and review.
- Built a full-stack system with ***GPT-4o*** for natural language feedback generation, leveraging Beautiful Soup to extract HTML content for enhanced output formatting, with a frontend powered by React.js for seamless GitHub repo and file input handling.

XFINITY CUSTOMER SERVICE CHATBOT

- Developed an intelligent, end-to-end AI-powered customer support chatbot leveraging ***Flask*** as backend and ***react*** as frontend, integrating ***RAG*** and ***OpenAI GPT-4o*** to deliver accurate, contextual responses based on real-time user queries.
- Architected a modular multi-agent orchestration system with dedicated agents for ***message classification, complaint resolution, and feedback management***, enhancing response quality and enabling dynamic routing based on query category (complaint, feedback, or general).
- Implemented advanced features including sensitive content detection, knowledge base chunking &embedding, and SQLite-based sentiment logging, ensuring robust compliance, traceability, and user insight tracking across all customer interaction.

FORECASTING TO OPTIMIZE SOLAR POWER GENERATION

- Designed and implemented a ***Machine learning***-based forecasting model in Python to accurately predict solar power generation using historical weather, irradiance, and energy output data.
- Applied advanced ML algorithms such as ***Random Forest, XGBoost, and LSTM*** to capture nonlinear patterns and time series dependencies, significantly improving prediction accuracy for solar energy production.
- Developed insights for solar power optimization strategies by analyzing prediction trends, enabling more efficient energy resource panning and enhancing grid stability for renewable integration.

Certifications

- **Data Science** – By "DATATHON 2.0"
- **Gen AI-White Belt** – By "NTTDATA"
- **AI Fundamentals** – By "Microsoft Azure"
- **Web Development** – By "Verzeo"
- **Foundations of Hugging Face** – By "Hugging Face"