 **Siri Chandana Tammineni**

*Gen AI Engineer*

Web Developer | Java Programmer

[siritammineni867@gmail.com](mailto:siritammineni867@gmail.com)

9515338448.

# 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”