

HEMA SRI KANAGARLA

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EDUCATION

Shri Vishnu Engineering College for Women
B.Tech; CGPA: 8.79 (till now)

2022-2026 (Expected)

TECHNICAL SKILLS

Languages: Python, Java, C.

Web skills: HTML, CSS, JavaScript, SQL.

Tools & OS: Linux, Windows, Google Colab, Git.

Core Knowledge: Fundamentals of Machine Learning, NLP, Data Structures and Algorithms.

PROJECTS

Vishnu Chatbot – AI Campus Assistant

- Developed an AI-powered chatbot for Vishnu Institute to answer campus-specific queries.
- Used Streamlit to create an interactive frontend for real-time user queries. Integrated Google Gemini (gemini-1.5-flash) for generating intelligent, contextual responses.
- Implemented RAG (Retrieval-Augmented Generation) using FAISS for semantic search over campus data. Employed Sentence-Transformers (all-MiniLM-L6-v2) to convert text into embeddings for similarity matching.
- Technologies Used: Python, Streamlit, Google Gemini, FAISS, Sentence-Transformers, Pandas, RAG, NLP.

Real-Time Weather Monitoring System

- Created a custom application leveraging the OpenWeatherMap API for immediate weather updates across five metropolitan areas, findings identified critical patterns leading to improved urban planning strategies.
- Processed daily weather rollups and aggregates, providing insights such as average, maximum, and minimum temperatures and the dominant weather condition.
- Technologies Used: HTML, CSS, JavaScript.

Campus Career Guide

- Accelerated a desktop application enabling students to access alumni employment details from 20+ companies, improving accessibility and ease of information retrieval for 500+ users.
- Mastered key features such as user authentication, company selection, and alumni details display, boosting user engagement by 25%.
- Technologies Used: Python, Tkinter Library, SQLite3.

ACHIEVEMENTS

Adobe She Codes 2024

Selected among 500+ applicants for a prestigious tech program, gaining insights into software development, industry technologies, and career growth through expert-led mentoring sessions.

Flipkart GWC 6.0

Chosen as one of the top 250 nationwide from thousands of applicants; advanced through multiple technical rounds and solved industry-relevant problems via mentorship-driven cohorts.

INTERNSHIP EXPERIENCE

Summer Intern, IDEA LAB

Led the development of an innovative IoT project that automated lighting and doorbell activation, enhancing security features for over 200 residential properties through efficient motion detection technology.

CERTIFICATIONS

Database Foundations

Oracle Academy

2024

VOLUNTEERING EXPERIENCE

Student Coordinator, Mathelets Club

2024-Present

Spearheaded the planning and execution of 10+ successful Mathlets Club events, improving coordination and collaboration through clear communication channels.