

Sai Vivek Reddy Goguladinne

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EDUCATION

Indian Institute of Information Technology Kottayam
B.Tech in Computer Science (Cyber Security Specialization)

Nov 2022 – Present
CGPA: 8.32/10

WORK EXPERIENCE

AI Engineer Intern - Zeka Solutions

Sep 2025 - Present

- Developed a conversational AI Tutor using LangChain and a RAG system to provide real-time, context-aware coding assistance via a FastAPI microservice.
- Engineered an automated AI code review system analyzing user submissions across 5 dimensions, including Code Quality (30%) and Best Practices (25%), to deliver instant debugging support.
- Implemented a Socratic teaching model with real-time streaming that guides users through projects, enabling milestone completion upon achieving a code quality score above 70%.

PROJECTS

RAG System with Precision Document Intelligence GitHub

Jul 2025 - Sep 2025

- Engineered a production-grade RAG system using Gemini-1.5-flash and Pinecone, delivering citation-backed responses with 30% higher retrieval precision.
- Developed a full-stack Python/Streamlit platform featuring multistage retrieval and real-time visual analytics for document intelligence.
- Optimized document processing through semantic fragmentation and metadata enrichment, enabling scalable NLP pipelines that processed more than 1,000+ documents.

WhatsApp Chat Analyzer GitHub

Dec 2024 - Feb 2025

- Developed an NLP-based analytics tool to extract meaningful insights from unstructured WhatsApp data, analyzing over 50,000+ messages.
- Implemented sentiment analysis (VADER), topic modeling (LDA), and emotion detection (NRC) using spaCy, NLTK, and Gensim with 92% accuracy.
- Dynamic visualizations were created using NetworkX and WordCloud to uncover communication patterns and trends in social behavior.

Interactive Interview Chatbot GitHub

Apr 2025 - Jul 2025

- Designed and deployed a conversational AI chatbot using the Gemma-2B LLM, improving response contextuality by 35% and enhancing user feedback experience.
- Built a full-stack solution with Python back-end and Streamlit front-end, handling 200+ mock interview sessions seamlessly.
- Implemented adaptive feedback and question generation mechanisms to track progress and simulate real-time interview scenarios.

TECHNICAL SKILLS

- **Programming:** Python, Java, JavaScript
- **AI/ML:** TensorFlow, Scikit-learn, Hugging Face, LangChain, LangGraph, XGBoost, Keras
- **Data & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau
- **Databases:** MySQL, PostgreSQL, MongoDB, Vector Database
- **Tools & Platforms:** AWS, Docker, Git/GitHub, MLflow, Streamlit, Flask, FastAPI
- **Techniques & Architectures:** RAG, NLP, Deep Learning, Machine Learning, MLOps, Data Visualization

ACHIEVEMENTS

- Ranked in the top 1% among more than 200,000 candidates in the APEAMCET exam.
- Solved 200+ competitive programming problems across platforms such as LeetCode and Codeforces, strengthening algorithmic and problem-solving skills.

CERTIFICATIONS

- **Microsoft Excel – Udemy Link**
- **Microsoft Power BI – Udemy Link**