

LAGUDU SREE MADHU KIRAN

+91-8919242013 , Andhra Pradesh, India

2306madhu@gmail.com [linkedin](#) [GitHub](#) [leetcode](#)

WORK EXPERIENCE

Project Intern at SAMSUNG – Developing a RAG Pipeline for RFC 3261 and 3GPP Spec. July 2024 - Feb 2025

- Developed a **RAG pipeline** integrating **FAISS** vector store, **Sentence Transformers**, and **BART** for domain-specific Q&A.
- Achieved strong performance with Precision: 0.88, Recall: 0.80, F1: 0.88, MRR: 0.92 on domain-specific QA tasks.

EDUCATION

B.tech in CSE with Specialization in AI & ML, VIT Chennai	CGPA : 8.79	2026
Sri Chaitanya Vidya Niketan (CBSE)	82.4%	2022
Sri Chaitanya EM School (BSEAP)	100%	2020

ACHIEVEMENTS

GATE 2025 – Data Science and Artificial Intelligence (DA)

All India Rank: 4883

GATE Score: 409

SKILLS

Languages	C, C++, Python, Java, SQL, MATLAB, HTML, CSS, x86 Assembly
Libraries/Frameworks	sklearn, TensorFlow, keras, Hugging Face Python libraries
Others	Web Scraping, LangChain, Retrieval-Augmented Generation (RAG), Socket Programming, linux

PROJECTS

AI-Powered Resume Ranker (Flask, SBERT, TF-IDF, Render)

- Built a web app to rank resumes vs job descriptions using **SBERT embeddings** & cosine similarity.
- Added **keyword extraction**, **email parsing**, **stopword removal** for filtering; deployed on Render with Gunicorn.

Predicting Liver Cirrhosis (ML Models) (Decision Trees, Logistic Regression, Sklearn, Flask)

- Preprocessed dataset (cleaning, feature selection, imbalance handling).
- Trained Logistic Regression, KNN, XGBoost, Random Forest — achieved **99% accuracy**; deployed via Flask.

Generation of Rooftop Solar Energy Potential Map (Custom CNN, UNet, Keras, TensorFlow)

- Designed **Custom CNN & UNet** for rooftop segmentation from satellite images.
- Estimated usable rooftop areas, calculated solar energy potential based on irradiance & efficiency.

SQL Database for Pizzeria (SQL, Navicat, Google Data Studio)

- Designed database schema for orders, stock, staff; automated stock tracking & cost calculations.
- Built dashboards for order processing & inventory management, reducing manual effort.

SOS Switch (IoT Project) (C++, XIAO RP2040, GSM/GPS)

- Developed SOS device with GPS/GSM calling, location SMS, and wireless control.
- Can be integrated into smartphones, vehicles, wearables, and appliances.

CERTIFICATION

AI using Google TensorFlow in collab with Google	SmartBridge
Introduction to Generative AI	Google Cloud Skill Boost
Gemini for Google Cloud	Google Cloud Skill Boost
Generative AI for Developers	Google Cloud Skill Boost
C, C++, and Python 3.4.3 Training in collab with IIT Bombay	VIT Chennai

CLUBS

Game Development Club

VIT CHENNAI