Vamsi krishna kumar Gompa
Visakhapatnam,AndhraPradesh,India | *7416373638* | *vamsikumar3u@gmail.com* | *@linkedin* | *@Github* | *@Leetcode* | *@Codechef*

Education

GMR Institute of Technology,Vizainagaram — **BTech in Computer Science** | GPA : ***9.16*** — *December 2021 – present*
Sri viswa,Visakhapatnam — **Intermediate** | percentage : ***94.4*** — *Jun 2019 – Apr 2021*
Sri Chaitanya School,Visakhapatnam — **class 10** | GPA : ***9.8*** — *Jun 2018 – Apr 2019*

Technical Skills

Languages :Python, C,C++,Java,SQL
CS Core :Data structures,DBMS,OOPS
Technologies :Machine learning,Deep learning,NLP
Web :HTML,CSS,Javascript,Flask,React,SpringBoot
others :AWS,Linux,Postman,Arduino,Git
soft skills :Teamwork and collaboration,Adaptability

Experience

Java Fullstack Intern | *Cognizant* — *February – Present*
- As a Java Fullstack Intern at Cognizant since February, I have been working on a Spring Boot application with a React frontend, leveraging Git, Spring Core, Spring Security, Microservices, and RESTful APIs. My role involves testing, ensuring application reliability, and contributing to the development of an Online Learning Management System.

Research Intern | *IIT Roorkee* — *August 2024 – November 2024*
- Developed an Optical Character Recognition (OCR) system for the Urdu language, focused on enhancing text recognition accuracy and performance. This involves creating a custom dataset, designing and optimizing a model, and utilizing tools such as web scraping, PyTorch, and Linux.

AI developer | *INV Technologies* — *November 2023 –January 2024*
- During my AI development internship, I developed a model for generating multiple-choice questions based on seven parameters for an automated interview system. I used Palm LLM to design the algorithm and integrated it with a React front-end. I also used GitHub for version control and Postman for API testing to ensure system functionality and reliability, improving the mock test experience with dynamic and relevant question generation.

Data science Intern | *NSIC,Hyderabad* — *30 June 2023 – 31 July 2023*
- As a Data Science Intern at NSIC, through a summer program from my college, GMR Institute of Technology (GMRIT), I gained hands-on experience in data analysis and applied data science. I contributed to real-world projects, focusing on data cleaning, analysis, and implementing machine learning techniques.

Certifications

Machine Learning with python | *IBM,* **Introduction to AI** | *Infosys Springboard,* **Data structures and Algorithms** | *Code Help,* **Problem Solving certificate** | *HackerRank,* **AWS Machine learning Foundation** | *AWS academy,* **IBM:Developing Front-End Apps with React** | *Coursera,* **Python for Data Science** | *NPTEL,* **SQL** | *HackerRank,* **AWS Cloud Practitioner Essentials** | *AWS*

Projects

Road Sign Detection and Classification | *DL,NodeMCU,opencv* — *Jan 2024*
- In this innovative project, we focused on the detection and classification of road signs from traffic sign boards using ResNet architecture, enhancing the model's ability to learn from the data efficiently. To bring this project into the real world, we dumped code into NodeMCU which is used do connect with motor of bot car, enabling it to navigate based on road sign detection.
- This project, which holds a patent, showcases a practical application of deep learning in automating vehicle guidance systems.

Edu.AI - Career Preparation with AI Technologies and Automated Assessment | *Python,React,JSON,Flask,LLM, NLP Feb 2024*
- du.AI is a collaborative project focused on improving career preparation through AI-powered mock tests, interviews, and automated academic assessments. The platform is built using React for the front-end and Flask for the back-end, and it features dynamic question generation and image-based answer evaluation.
- In this project, I was responsible for creating the question generation system using advanced large language models (LLM) and developing the answer evaluation system with natural language processing (NLP) and transformer technologies. This work highlights the integration of AI in enhancing educational and assessment processes.

Social Network Clustering | *Python,HTML,CSS,NetworkX,Flask* — *Dec 2023*
- This project aimed to analyze social network interactions by visually representing users and their communications. The approach involved identifying senders and receivers within a network, where each user was depicted as a node.Colors were used to differentiate roles: blue for receivers, red for senders, and green for those who play both roles.
- This visualization was integrated into a web application using Flask, offering an intuitive representation of user interactions within the network.