



Kasam Rohith Reddy

B.Tech - Computer Science and Engineering



Objective

A passionate engineer specializing in Large Language Models (LLMs), Artificial Intelligence, and Data Engineering. Proficient in Python, Deep Learning, and NLP, with experience deploying neural networks, vector databases, and generative AI solutions. Eager to contribute to innovative projects, leveraging expertise in LangChain, Transformer architectures, and advanced AI tools to solve complex challenges and drive impactful outcomes.

Education

Woxsen University | Hyderabad, Telangana, India
2021 - 2025 | B.Tech

Narayana Junior College | Hyderabad, Telangana, India
2019 - 2021 | Intermediate

Paramita High School | Karimnagar, Telangana, India
2015 - 2019 | State Board

Internship

Salesforce Developer Virtual Internship

May-2024 - Jun 2024 | Duration: 8 weeks

- Completed Salesforce Trailhead modules on topics such as Salesforce Fundamentals, Organizational Setup, Relationship & Process Automation, Apex, and Lightning Web Components.
- TechStack:** Salesforce Platform, Process Automation, Apex Programming

Projects

Medical Image Analytics for Gastro Disease Diagnosis | Research Contributors: 5

- Developed a deep learning solution for gastric disease classification, lesion detection, and area quantification using neural networks.
- Contributed to ResNet, YOLO, hyperparameter tuning, and area quantification for improved model performance and analysis.

Assistive Driving with LLMs

- Developed an assistive driving system integrating object detection and LLMs to enhance ADAS, enabling real-time vehicle speed, distance analysis, and adaptive decision-making in complex scenarios.
- Processed Indian Driving Dataset (IDD) data for temporal insights and integrated natural language interaction for human-like reasoning, delivering a robust, safety-focused solution.

Industry Insights Chatbot

- Developed a Streamlit chatbot application for querying aluminum industry news, implementing custom web scraping, data embedding, and a user-friendly chat interface.
- Built vector embeddings and managed secure API integration for accurate, relevant responses, handling user queries with custom logic.

Pneumonia Classification | Solo project

- Developed and optimized a CNN model for pneumonia classification, utilizing hyperparameter tuning for enhanced performance.
- Designed and deployed a Streamlit app for interactive, user-friendly result visualization.

Publications

- Enhanced Image Analytics for Gastrointestinal Disease Diagnosis with Area Quantification - Springer Journals SNComputer Science (Submitted)

Contact

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- Karimnagar, Telangana
- LinkedIn
- Github

Languages

- English
- Telugu
- Hindi

Technical Skills

- Python Programming
- OOPS (Java)
- HTML, CSS, JavaScript
- MERN Stack
- Data Analysis and Visualization** Pandas, NumPy, Matplotlib, Seaborn
- ML Models; DL models, Frameworks (Tensorflow, Pytorch, Keras, OpenCV, PIL); Image Classification; Object Detection; Image Segmentation
- Natural Language Processing
- Vector Database
- LangChain
- Generative AI
- SQL
- Version Control (Git)

Professional Skills

- Decision Making
- Adaptability
- Teamwork

Certifications

- 2022 - 23 | Python Data Structures
- 2022 - 23 | Neural Networks and Deep Learning