

Rohith Mariyala

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Summary

CS student with 8.96 CGPA and real-world experience developing AI products used by 100+ users. Specialized in cloud & ML technologies, eager to contribute to high-impact, user-facing systems and AI solutions. Skilled in Python, Git, and Docker, with a passion for innovative projects like LocalAI, PhysiSolve designed to bridge digital divides. Proven collaborator with a strong foundation in machine learning, cloud technologies, and agile development.

Education

B-Tech. in Computer Science and Engineering

Nov 2022 - Pursuing

Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India

- 8.96 Aggregate CGPA

Intermediate Education

Jun 2020 - July 2022

Sri Sanjeevni Junior College, Hyderabad, India

- 94% score

Experience

Software Developer Intern | Orchestration Syndicate, Remote

May 2024 - Dec 2024

- Developed real-time task management features for an open-source framework, collaborating with a 5-member team to design reusable classes and functions.
- Enhanced security by integrating OIDC authentication, optimizing feature classes for a 20% reduction in login latency.
- Co-designed an AI product leveraging Apple ML-4M, contributing to a scalable machine learning pipeline for real-time data processing.

Projects

LocalAI | github.com/mrohith29/localAI

Python, HTML, Jinja, Docker

- Built an offline AI interface using Ollama API, enabling text generation for users in remote areas without internet access.
- Designed a modular system with Jinja templates and CSS, bridging the digital divide for underserved communities.
- Deployed via Docker, ensuring portability and ease of use across diverse hardware setups.

PhysiSolver | github.com/mrohith29/PhysiSolve

Python, Machine Learning

- Developed a research project to enhance the physics problem-solving capabilities of AI models.
- curating a 400-record dataset (high_school_physics.json) covering kinematics, mechanics, and more. Implemented a methodology using the Flan-T5-Large model, combining zero-shot learning, reinforcement learning with optimized policies, and few-shot learning to improve accuracy.
- Demonstrated effectiveness by boosting model performance on physics concepts, showcasing innovative techniques in AI development and dataset-driven training.

Skills

- Languages:** Python, Java, C, PostgreSQL, JavaScript
- Frameworks & Libraries:** React, Flask, Astro, Bootstrap, TensorFlow, Transformers, Scikit-learn
- Tools & DevOps:** Git, Docker, AWS (Registrar, Route 53), CI/CD, CLI
- Concepts:** Object Oriented Programming, Agile, Machine Learning, Data Structures and Algorithms, AI
- Languages Spoken:** English, Telugu, Hindi

Certifications

CCNA : [Introduction to Networking](#) - Cisco

Feb 2025

CCNA : [Switches, Routers and Wireless Essentials](#) - Cisco

April 2025

CCNA : [Enterprise Networking, Security, and Automation](#) - Cisco

May 2025

AWS Virtual Internship : [Cloud Foundations](#) - AWS

Sept 2024

NPTEL : [Data Science for Engineers](#) - IIT Madras

Sept 2024