Rohith Mariyala

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Summary

Third-year Computer Science student with a 8.97 CGPA and hands-on experience as a Software Developer Intern, building real-time applications 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, eager to drive impactful tech solutions.

Education

B-Tech. in Computer Science and Engineering *Nov 2022 - Pursuing*

Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India

- 8.97 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.

PhysiSolve | 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, PostgresSQL
- **Frameworks & Libraries:** 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
- **Languages Spoken:** English, Telugu, Hindi

Certifications

CCNA : Introduction to Networking - **Cisco** *Feb 2025*

AWS Virtual Internship : Cloud Foundations - **AWS** *Sept 2024*

NPTEL : Data Science for Engineers - **IIT Madras** *Sept 2024*

CCNA : Switches, Routers and Wireless Essentials - **Cisco** *April 2025*