

Ameda Rohith

amedarohith03@gmail.com | +91 6309125092 | LinkedIn | GitHub | Credly | LeetCode

Summary

AIML undergraduate at SR University with strong foundations in Python, Data Structures, SQL, Machine Learning, and Full-Stack Development. Interested in building scalable AI-driven and web-based applications.

Education

SR University, Warangal

Aug 2023 – May 2027

B.Tech in Computer Science (Artificial Intelligence and Machine Learning)

- CGPA: **9.446 / 10**
- Ranked among the **Top 5%** students in the AIML program through consistent academic performance.

Projects

AI Code Debugger | Python, Flask, OpenRouter API, LLMs

April 2026

- Built an AI-powered debugging assistant that analyzes 100+ lines of code and detects syntax, logical, and runtime issues.
- Automated code reviews by generating 5+ feedback categories, including bug fixes, optimization, and quality scores.
- Deployed a Flask application leveraging LLM APIs for real-time code analysis and debugging.

Flood Guard | HTML, CSS, JavaScript

January 2026

- Designed a flood-risk monitoring platform supporting 3 stakeholder roles and 6+ modules for disaster response.
- Implemented alert management, evacuation tracking, emergency coordination, and reporting in a unified platform.
- Architected a scalable framework integrating real-time monitoring, predictive analytics, and automated alerts.

Air Pollution Forecasting | Python, Deep Learning, XAI

October 2025

- Developed deep learning models to predict PM2.5 levels using meteorological and pollution data.
- Achieved high predictive performance (R^2 up to 0.92) with LSTM outperforming GRU and CNN-LSTM models.
- Designed LSTM, GRU, and CNN-LSTM models for environmental forecasting, integrating XAI (SHAP, LIME) to improve transparency and identify key drivers.

Technical Skills

Programming: Python, Java, JavaScript, SQL, C, HTML, CSS

Libraries/Frameworks: Flask, NumPy, Pandas, Scikit-learn

Databases: MySQL, PostgreSQL, MongoDB

Machine Learning: Regression, Classification, Model Evaluation

Deep Learning: LSTM, GRU, CNN-LSTM

Explainable AI: SHAP, LIME

Data Tools: Jupyter Notebook, Git, GitHub

Computer Science Fundamentals: Data Structures, Algorithms, Competitive Programming, Operating Systems, Computer Networks, High Performance Computing

Achievements

- Secured **Runner-Up** at UDBHAVA X'26 Hackathon for developing Flood Guard, a flood-risk monitoring platform.
- Solved 200+ DSA problems across LeetCode and HackerRank.
- Recognized as a top performer in Quantitative Aptitude & Logical Reasoning (QALR) coursework.

Activities

Literacy Master Communications Club (LMCC) | SR University

- Delivered 10+ speeches and participated in debates, strengthening public speaking and audience engagement.
- Coordinated literary events and workshops, promoting creative thinking and effective collaboration within the team.

Certifications

AWS Certified Machine Learning Engineer – Associate

(Verify)

Microsoft Certified: Azure AI Engineer Associate

(Verify)

AWS Certified Cloud Practitioner

(Verify)

Microsoft Certified: Azure AI Fundamentals

(Verify)

NVIDIA Fundamentals of Deep Learning

(Verify)