AMIT REDDY

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Github | Portfolio

EDUCATION

S.R.M INSTITUTE OF SCIENCE AND TECHNOLOGY   Chennai, Tamil Nadu
Bachelor of Technology in Computer Science and Engineering   Expected May 2027
Major in Computer Science; Specialization in Big Data Analytics
CGPA: 8.99/10
Relevant Coursework: Artificial Intelligence; Database Management System; Object-Oriented Programming; Operating
        Systems; Database Management System; Digital Image Processing.

KENDRIYA VIDYALAYA SANGATHAN   Hyderabad, Telangana
High School Diploma - Science   Apr 2011 - May 2023

WORK EXPERIENCE

National Institute Of Technology, Trichy   Tiruchipally, India
Summer Research Intern   May 2025 – July 2025
- Designed a custom MARL algorithm with emergent communication for cooperative predator-prey pursuit, enhancing coordination via a learnable scalar signal in partially observable environments.

Samsung Prism   Bangalore, India
Research and Development Intern   March 2025 – Present

Research Centre Imarat, DRDO   Hyderabad, India
Machine Learning Research Intern   Dec 2024 – Jan 2025
- Analyzed big datasets with Python and model development within TensorFlow and Scikit-Learn.

PROJECTS

Central-Server-Group-Chat   Jun 2025
- Developed a secure Signal-style group chat system with end-to-end encryption, user authentication, and group management using CryptoPP and Boost.

TravelAI   March 2025
- Developed Travel Itinerary AI Planner, an AI-powered platform with AR integration that optimizes travel routes, personalizes itineraries, and provides real-time recommendations using a Vehicle Routing API and dynamic scheduling.

Sketch-to-Image-Generation   Feb 2025
- Developed a GAN-based model to transform hand-drawn sketches into realistic images using deep learning.

ADDITIONAL

Technical Skills:
Data Structures and Algorithms, React Native, SQL, JSON, Power BI, React, Flutter, AWS, Machine Learning
Deep Learning, Natural Language Processing, SpaCy, Pandas, Numpy, Scikit-learn, Large Language Models,
TensorFlow, Linux, Matlab, Git, Computer Vision, Excel, Data Handling.

Programming Languages:
C, C++, Java, Python, Javascript, Typescript, PowerShell, Kotlin.

Certifications & Online Platform badges:
Alteryx Foundation And Designer Core for Data Analytics Process Automation, Remote Sensing and Digital Image
Analysis, MATLAB Image Processing, HackerRank: 7 Badges, Leetcode: 5 Badges.

Hackathons:
1. 2nd Runner up in ACM-W Make-a-thon at SRMIST - Sep 2024.
2. 1st Runner up in AGENTICA Hackathon at Abhisarga IIIT Sri City - March 2025.