

# AMIT REDDY

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## EDUCATION

### S.R.M INSTITUTE OF SCIENCE AND TECHNOLOGY

Bachelor of Technology in Computer Science and Engineering  
Major in Computer Science; Specialization in Big Data Analytics  
Cumulative CGPA: 9.03/10

Chennai, Tamil Nadu  
Expected May 2027

Relevant Coursework: Data Science; Object-Oriented Programming; Operating Systems; Data Structures And Algorithms; Artificial Intelligence; Database Management System; Digital Image Processing

### KENDRIYA VIDYALAYA SANGATHAN

High School Diploma - Science

Hyderabad, Telangana  
Apr 2011 - May 2023

## WORK EXPERIENCE

### Research Centre Imarat, Defence Research and Development Organisation (DRDO)

Machine Learning Research Intern

Hyderabad, India  
Dec 2024 – Jan 2025

- Created predictive modeling to increase system reliability by 25% while optimizing algorithms for increased efficiency of 15%.
- Analyzed big datasets with Python and Pandas to inform data-driven decisions and model development within TensorFlow and Scikit-Learn.
- Worked closely with engineers and scientists to integrate Machine Learning solutions into defense projects.

### All India Council For Technical Education (COHORT-7)

AWS AI-ML Intern

Virtual  
Jan 2024 – Mar 2024

- Explored basic machine learning concepts using AWS SageMaker
- Completed introductory projects on data processing and simple model deployment
- Learned fundamentals of cloud-based AI/ML tools and their applications
- Collaborated with peers on beginner-level AI tasks and exercises

## PROJECTS

### NeuroVision

Feb 2025

- Designed a deep learning model using 3D DCNNs for MRI data and EEGNet-based 2D DCNNs for EEG data to predict cognitive metrics.
- Processed datasets from the Max Planck Institute, leveraging TensorFlow/PyTorch for model training and multimodal data integration.
- Enabled accurate neural-behavioral analysis, showcasing expertise in neuroinformatics and deep learning.

### Capacitated Vehicle Routing System (CVRP)

Jan 2025

- Tackled using a model-based Java simulated-annealing local search algorithm. The solution for CVRP is NP-complete in instances where the objective is the minimization of total travel distance.
- Checked that all constraints on total vehicle capacity and customer demands were satisfied, each vehicle starts and ends at the depot.
- Efficiently designed practical solutions to real warehouse distribution scenarios by balancing speed of calculation and precision of optimization.

## ADDITIONAL

**Technical Skills:** Data Structures and Algorithms, OOPS, SQL, Power BI, React, AWS, Deep Learning, SpaCy, Pandas, Numpy, Scikit-learn, TensorFlow, Linux

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

**Languages:** Fluent in English, Hindi; Conversational Proficiency in Spanish and German.

**Certifications & Training:** Alteryx Foundation And Designer Core for Data Analytics Process Automation , Remote Sensing and Digital Image Analysis (ISRO), NPTEL Elite Programming in Java.