

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: 8.77/10

Relevant Coursework: Data Science; OOPS; Operating Systems; Data Structures And Algorithms

Chennai, Tamil Nadu

Expected May 2027

KENDRIYA VIDYALAYA SANGATHAN

High School Diploma - Science

India

Apr 2011 - May 2023

WORK EXPERIENCE

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

Machine Learning Research Intern (Winter)

Hyderabad, India

Dec 2024 – Present

- Developed predictive models to improve system reliability by 25% and optimized algorithms, increasing efficiency by 15%.
- Analyzed large datasets using Python and Pandas for data-driven decision-making and model development with TensorFlow and Scikit-Learn.
- Collaborated with engineers and scientists to integrate Machine Learning solutions into defense projects.
- Conducted research on emerging Machine Learning techniques and presented findings to senior researchers and stakeholders.

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

[Inventory Management System](#)

Sep 2024

- Designed and implemented Inventory System application using Java, JavaFX and MySQL
- **Objective:** Developed a comprehensive inventory management system to automate and optimize stock tracking, purchase order management, and report generation.
- **Key Features:** Real-time inventory tracking, automated data entry, customizable reports and analytics, and enhanced security with access controls and audit trails.
- **Impact:** Improved operational efficiency, reduced stockouts, minimized losses due to theft or errors, and provided valuable insights for better decision-making.

[2019 General Election Analysis and Swing Prediction Model](#)

Aug 2024

- Analyzed voter behavior and trends using demographic, economic, and social data.
- Used Linear Regression, Support Vector Regression, and Multilayer Perceptron for swing prediction.
- Highlighted the impact of regional disparities and government policies on voting.
- Provided insights into factors influencing voter behavior in large-scale elections.

ADDITIONAL

Technical Skills: SQL, Data Structures and Algorithms, OOPS, MongoDB, ExpressJS, Matplotlib, React, NodeJS, Deep Learning, SpaCy, Pandas, Numpy, Scikit-learn, TensorFlow.

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

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

Certifications & Training: Online Course in Alteryx Foundation And Designer Core for Data Analytics Process Automation, Remote Sensing and Digital Image Analysis by IIRS ISRO.

Memberships: Institute of Electrical and Electronics Engineers [IEEE].