

RAJ CHARAN

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Education

Vardhaman College of Engineering, Hyderabad
B.Tech in Artificial Intelligence and Machine Learning

2022 – 2026
CGPA: 9.31

Experience

NIELIT (National Internship)

Aug 2024 – Oct 2024

Machine Learning Intern

- Optimized data pipelines and ML models, reducing processing time by 20%.
- Developed a movie recommendation system using collaborative filtering with 90% accuracy (RMSE, precision).

Internship Studio

Jul 2024 – Aug 2024

Machine Learning Intern

- Aced CIT exam to earn a selective internship focused on statistical modeling and Python.
- Designed ML solutions, improving project accuracy by 15% in real-world cases.

Projects

Weather Forecasting System

May 2024

- Built a machine learning model using Random Forest to predict temperature based on historical weather data.
- Integrated location-wise trends and seasonal components for region-specific forecasting insights.

Named Entity Recognition for Medical Texts

Nov 2024

- Built a NER tool to identify medical entities in clinical texts.
- Applied CRF and Bi-LSTM models for sequence labeling and data annotation.
- Evaluated using precision/recall and tested on clinical data from open medical corpora.

Domain-Specific Chatbot for Technical Queries

Feb 2025

- Built a chatbot using Flask and Python to handle domain-specific queries in Java, Python, DBMS, and SQL.
- Designed a modular intent-handling system to improve technical response accuracy.
- Implemented context-aware routing to maintain topic consistency during multi-turn queries.

Skills

Languages: Python, C, Java, SQL, MongoDB

Tools: VS Code, Jupyter Notebook, Google Colab, GitHub

Web: HTML, CSS, Js, Flask

Certifications

- Google Cloud Certified – Foundations:** Proficiency in GCP and cloud computing concepts.
- MongoDB Certified Developer (Atlas):** Development of database apps using MongoDB Atlas.
- AWS Academy Cloud Foundations:** Completed foundational certification on AWS cloud architecture and services.

Achievements & Activities

- Solved 300+ problems on LeetCode and 100+ on GeeksforGeeks.
- Organized **CodeClash** – a college-level competitive coding event with 150+ participants, promoting problem-solving skills and algorithmic thinking.