



N Sudharshan Reddy

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EDUCATION

B.E in Computer Science and Engineering(AI & ML)

Ramaiah Institute of Technology, Bangalore

Coursework: Data Structures, Algorithms, Software Engineering, DBMS, Computer Networks, Operating Systems, OOPS with C++, Compiler Design, Machine Learning, Deep Learning.

Dec 2021 – July 2025

Current CGPA: **9.0/10**

WORK EXPERIENCE

Unisys

ML Research Intern

Remote

Oct 2023 – Mar 2024

- Implemented Multi-Level Generative AI by integrating Large Language Model (LLM) with agents in Python using **OOPS** for modular design
- Employed diverse approaches such as **BERT**, Nvidia's **NeMo-Guardrails**, and designed domain and sub-domain classifiers for query classification.
- Generated an HR and finance queries [Dataset](#) with 1382 rows having 5,851 downloads on HuggingFace and prepared it for efficient classification of queries.

Yubi - (Fintech company)

ML Intern

Remote

May 2023 – Oct 2023

- Developed a **ChatBot** focused on **Extractive and Generative AI**, applied OOP principles to design a system for document-based question answering with successful utilization of **RAG** and a Vector database.
- Handled over 500 queries during testing with **Flan-T5**, **Llama-2**, and **LangChain**, achieving positive feedback.
- Highlights:** Leveraged Llama-2 with RAG for daily news dataset analysis and question answering, processing over 8,000 rows of questions and answers

PROJECTS

Udbhav Fest Web Interface [UDBHAV'24 MSRIT](#)

- Developed a web application for MSRIT's Udbhav Fest using **HTML**, **CSS**, and **JavaScript**, facilitating a user base of over 5,000 students.
- Responsive Event Listings:** Created detailed schedules and registration link for **50+** fest events, ensuring accessibility on various devices.
- Comprehensive Information Sections:** Featuring about, contact details, and coordinator information for efficient communication.
- Vercel Deployment:** Utilized Vercel for seamless deployment and hosting, ensuring 95% uptime and high performance.

Network Intrusion Detection System

- Implemented a Real-Time Network Intruder Detection System leveraging **XGBoost Classifier** model for traffic Classification with an accuracy of 99.9.
- Analyzed **CICIDS2017** dataset (70K rows, 82 columns) to train the model, ensuring robust detection of attacks such as brute force and DoS.
- Implemented real-time data collection and analysis using **CICFlowmeter**, Python tools, enabling immediate detection and notification of potential network threats for every 3 seconds.

SKILLS

Programming Languages: C/C++, Python.

Database: Relational Databases (MySQL), Vector db(Weaviate, Pinecone), SQL.

Frameworks and Tools: Pytorch, Tensorflow, HuggingFace.

Other Libraries: Scikit-learn, Numpy, Pandas, Flask, Streamlit.

ACHIEVEMENTS

- Successfully solved **300+** coding problems on [LeetCode](#).
- Finalist at **IIT-Bombay TechFest-23** CashFlow Modelling Competition.
- Won **First Place** in a 24-hour hackathon Organized by **BMSCE Phase-Shift '23**.
- Secured 2nd place in the all-night CodeClash'23 hackathon by **ArtiSec-RIT**.
- Secured Second Place in an Ideathon Conducted by **IEEE-RIT**.
- Won **First Place** in an AI hackathon Organized by **BMSCE Phase-Shift '22**.

ACTIVITIES

- Chair** of TechEthics (Research Team) and Creativity Chapter in **IEEE-RIT**.
- Core Member** in Department of Extra-Curricular Activities (**DECA**) in MSRIT.
- Volunteer in **NSS-RIT**.