VINAY KUMAR KARRE

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Summary

Enthusiastic problem solver with a strong foundation in Data Structures and Algorithms (DSA) using Java. Passionate about tackling complex challenges, optimizing algorithms, and building efficient solutions. Worked on sentiment Responsive chatbot and deep learning projects, with a keen interest in backend development, machine learning, and AI-driven applications. Eager to explore opportunities in software engineering and problem-solving domains.

Education

B V Raju Institute Of Technology, Artifical Intelligence and Machine Learning in Computer Science — Nov 2022 – July 2026

- GPA: 7.84/10.0 (a link to somewhere)
- **Coursework:** Data Structures and Algorithms (DSA) , Object-Oriented Programming (OOP) , Machine Learning and Deep Learning , Database Management Systems (DBMS) , Operating Systems , Computer Networks , Natural Language Processing ,Computer Organization ,Advanced Computational Lingusitics , Data Mining and Data Analytics

Skills

- Data Structures and Algorithms (DSA)
- Object-Oriented Programming (OOP)
- Problem-Solving
- Debugging and Code Optimization

Technologies

- **programming:** Java, C, C++, JavaScript
- **Web Development:** HTML, CSS
- **Frameworks:** Spring Boot, TensorFlow
- **Database:** MySQL, MongoDB
- **Version Control:** Git, GitHub

Competitive Programming

- Solved 100+ DSA problems on LeetCode [Link]
- competitive programmer on CodeChef [Link]
- competitive programmer on Codeforces [Link].

Experience

Software Engineer Intern, Technook — Feb 2024 – Mar 2024

- Developed a **Sentiment Responsive Chatbot** to process customer feedback efficiently.
- Gained experience in **Artificial Intelligence and Machine Learning** through real-world applications.
- Successfully completed the **Mentorship Program on Artificial Intelligence** with Btech Walleh in association with Technook.

Projects

Sentimental Responsive Chatbot [Link]

- Developed a chatbot capable of detecting user sentiment and responding accordingly. The project involved designing and implementing natural language processing techniques to classify user input as happy or sad and generate appropriate responses
- Tools Used: Python Natural Language Processing (NLP) Machine Learning Flask

Hand Written Digit Recognition [Link]

- Developed a machine learning model to recognize handwritten digits with high accuracy. Implemented the project using Python and libraries such as TensorFlow and Keras. Trained the model on the MNIST dataset, achieving an accuracy of 98. Deployed the model using a web interface built with Flask for real-time digit recognition.
- Tools Used: Python TensorFlow Keras Flask MNIST dataset.

Predicting RF Heating in MRI using Machine Learning [view paper]

- Investigated RF heating effects of conductive leads in MRI scans at 1.5T.
- Applied Machine Learning models to analyze heating patterns.
- Worked on the article formatting and collaboration in Overleaf.

Technical certifications

- **privacy and security in online social media** - NPTEL
- **Data Analytics: Turning Data into Decisions using Python** - IBM SkillBuild
- **Data Science** - Cisco Networking Academy
- **Database Programming with SQL** - Oracle