

Rithul Sandeep

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EDUCATION

Vellore Institute of Technology, Vellore

2027

B.Tech in Computer Science Engineering

CGPA: 9.42

PROJECTS

WhatsApp Chat Summarizer

- Built an extension to scrape existing chats on WhatsApp Web and provide a summary.
Python, NLP, Selenium, JavaScript

Traffic Violations Detector

- Developed an integrated video analysis tool that performs helmet detection, license plate recognition, and speed estimation using YOLO models and OCR.
Python, Computer Vision, Gradio

Online Auction System

- Built a full-stack online auction platform using the MERN stack, implementing user authentication, real-time bidding, and cloud deployment for end-to-end web development experience.
React.js, Node.js, Express.js, RESTful API's, MongoDB

Course Scheduler

- Built an automated course scheduling system using constraint satisfaction programming to optimize university timetables and eliminate scheduling conflicts.
Pandas, Backtracking Algorithms, Optimization Algorithms, Priority Based Sorting

SKILLS AND ACHIEVEMENTS

Programming languages: Python, Java, JavaScript, C/C++

IEEE Student Branch — Senior Core Member (AI, Competitive Coding)

July 2024 – Present

- Led the AI/ML module of a Discord-like internal communication platform for club member.
- Developed a text toxicity detector using Transformer models to ensure safe interaction
- Integrated a chatbot using Microsoft's Phi for real-time query handling

TAM – The AI ML Club — Core Member (Design, Marketing, Management and Tech Team)

July 2024 – Present

- Co-hosted two AI/ML hackathons for 100+ students
- Conducted a workshop on Exploratory Data Analysis using Python and Pandas
- Taught fundamentals of Computer Vision including CNNs and OpenCV

Competitive Coding

- Solved 200+ problems on LeetCode across data structures and algorithms.
- <https://leetcode.com/u/rithulsandeep/>