



SAILADA VISHNU VARDHAN

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Education

Indian Institute of Technology, Kharagpur

B.Tech Computer Science and Engineering

12/2020 - 04/2024

Experience

MathWorks

Engineering Development Group

Hyderabad

05/2023 - 07/2023

- Implemented a C++ script utilizing classes to differentiate irregular surface data extracted from PCB model designs.
- Analyzed the data to identify the geometry of shapes on each surface layer, enhancing the understanding of components.
- Designed comprehensive test cases and validated the output using MATLAB, ensuring data accuracy across various PCBs.

Projects

Efficient Data Stream Anomaly Detection

11/2023

- Developed a Python script capable of detecting anomalies in a continuous data of random floating-point numbers.
- Implemented using Isolation Forest algorithm to visually display both the data stream and any detected anomalies.

Dynamic Tic Tac Toe Game

10/2023

- Developed a Tic Tac Toe game using React with variable board sizes, optimizing user engagement and adaptability.
- Implemented an AI opponent utilizing the minimax algorithm, offering users a game with variable difficulty levels.

Hospital Management System

03/2023

- Developed an online hospital management system for scheduling appointments and maintaining patient records.
- Implemented using HTML, CSS, and JavaScript for the frontend, coupled with Django framework for the backend.

Basic Linux-Type Shell

02/2023

- Developed a C-based shell program for linux that executes commands sequentially, handling one command at a time.
- Shell accepts basic commands cd, pwd, ls, sort, cat, more, and signals like ctrl+c, ctrl+z, and up/down arrow keys.

Decision Tree vs Bayesian

11/2022

- Built Decision Tree using ID3 algorithm with IG, applied reduced error pruning, and plotted test accuracy vs depth.
- Trained Naïve Bayes Classifier on the same data with Laplace correction, showcasing versatility in ML approaches.

Awards and Achievements

- Achieved All India Rank 742 in JEE Advanced 2020, standing out among 1,50,838 shortlisted candidates.
- Attained a position among the top 30 students in Andhra Pradesh for the Indian National Mathematical Olympiad.
- Among the top 0.2% of 11,70,000 applicants with 99.834 percentile in JEE Mains 2020 Examination

Coursework Information

Programming and Data Structure	Software Engineering	Operating Systems	Computer Networks
Database Management Systems	Probability and Statistics	Machine Learning	Computational Bio-Physics
Computer Architecture	Artificial Intelligence	Basic Electronics	Discrete Structures

Skills

Languages: • C • C++ • HTML • CSS • React • MySQL • Django • Verilog • Python • Java

Softwares: • Arduino • MATLAB • Xilinx • Auto CAD • Tinker CAD

Interests & Hobbies

Creative DIY Enthusiast and Maker

Active Cyclist and Outdoor Explorer

Avid Badminton Player