MADHUR THAREJA

Dual Major ES,CS \(\phi\) madhurthareja1105@gmail.com \(\phi\) Portfolio LinkedIn

EDUCATION

Birla Institute of Technology and Sciences Pilani, Pilani

B.Sc.(H) Computer Science, CGPA: 9.78

August 2023 - Present

Indian Institute of Technology, Chennai

B.S. Electronic Systems, CGPA: 8.97

Central Board of Secondary Education

Class 12: **83.20**%

September 2023 -Present

EXPERIENCE

Indian Institute of Technology Ropar

May 2024 - July, 2024

Summer School

Ropar, Punjab

- Successfully completed the projects given including Recommendation Systems, Estimation (Like German Tank in 2 or 3 Dimensions), PageRank using Power Iteration, Simulated Annealing, Data Compression
- Developed the understanding of Computer Vision, Supervised Learning, Self Supervised Learning, Natural Language Processing
- · Contributed to peer learning and explained several projects to my peers.

PROJECTS

Gesture Detection

Engineered a sophisticated gesture detection system incorporating hand raise and nod detection for multiple individuals, utilizing YOLOv8n and MediaPipe. This cutting-edge solution demonstrates advanced accuracy and real-time responsiveness.

Recommedation Prediction Model

Architected a sophisticated friendship prediction model employing Matrix Factorization, attaining exceptional precision and markedly elevating the predictive acumen of social network analysis.

Chatbot for Construction related Questions

Conceived and developed an intelligent chatbot as part of a collaborative project for a prestigious hackathon organized by the Civil Engineering Department of IIT Madras. This chatbot proficiently answers construction-related queries and meticulously tabulates the responses, demonstrating remarkable utility and efficiency.

TECHNICAL SKILLS

C++, Python, Java, Bash Shell Scripting Languages

Computer Fundamentals Data Structures, Algorithms, Database Management System

Machine Learning Numpy, Pandas, Scikit-learn, Regression, Classification and Clustering Algorithms

Electrical and Electronic Circuits, Ordinary Differential Equations Relevant Coursework

Soft Skills Problem Solving, Self-learning, Presentation, Adaptability

CO-CURRICULARS AND ACHIEVEMENTS

- Participated and cleared Round 1 with Rank 1 in the Hackathon organised by IIT Madras for Construction Related Question answering ChatBot, the prototype for Round 2 is under evaluation.
- Represented Gurugram in Badminton in the State Championship held in Delhi
- Achieved Global Rank 1 in Bash scripting challenges and Gold Badge in Java Challenges on HackerRank