Indian Institute of Technology Madras |SAMBHAV JAIN|CS23M060|33/CS/25/060
LinkedIn | Github | Profile

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

M. Tech Computer Science Engineering	Indian Institute of Technology Madras	7.43	2023 -2025
B.E. in Information Science Engineering	DSATM	7.76	2017 - 2021
XII (CBSE)	St. Clares' Sr. Sec. School	82.2	2017
X (CBSE)	St. Clares' Sr. Sec. School	85.5	2015

INTERNSHIP

Undergraduate Intern
Leeway Hertz
Jul - Aug '20

Blockchain Internship

- **Developed** a user registration system with API integration for creating, storing, and updating user data, displayed via a new route.
- **Built** a stablecoin on Stellar Blockchain and a user wallet with ReactJS, enabling account creation, token transfer, and transaction viewing.

JOURNAL

Simulating Bot to Detect Human Emotions Using Natural Language Processing
Paper Id- 14748
Published In = International Journal Of Advance Research And Innovative Ideas In Education
Publisher – IJARIIE {Link}
e-ISSN – 2395-4396
Author Names-
Rio Glen Lobo,Sambhav Jain, Saraj Kishore, Saurabh S R

PROJECTS

Graduate Thesis Project
Jun 2024- Ongoing

JUGAAD - Behaviour - as - a - service Chester Rebeiro

- **Analyzed** malware reports, developed hashes, and compressed malware files as part of Open Malware Research.
- **Set up** an NFS server and database, and **integrated** the database with the website for seamless data management.

Undergraduate Project
Aug 2020 -June 2021

Simulating Personality BOT(SimpBOT) {Certificatte} , {Certificate}, {Report} Dr M. Vinoth Kumar

- **Executed** word-level and character-level models, achieving 79.86% accuracy in bad language detection and 82.65% in Hindi abusive language detection.
- **Achieved** 98% accuracy in greeting recognition and 81.04% in flirt detection, with ~79% accuracy in identifying lewd comments and pickup lines.
- **Integrated** ReactJS and Dialog Flow with Webhooks for real-time sentiment analysis.
- **Trained** the bot capable of Detecting the Abusive Language and Aggressiveness using profile-based representations.

Undergraduate Minor Project
Aug 2020 - Dec 2021

Student Performance Analysis BhavyaShree H L

- **Demonstrated** a 14%–15% improvement in placement outcomes from the 2018-2019 season to the 2019-2020 season.
- **Noted** an increase in the overall pass percentage of students from the 2018-2019 batch to the 2019-2020 batch.
- **Designed** a database in MySQL to store and organize student information, including courses, semesters, years, and marks.
- **Implemented** queries to retrieve data and calculated student performance using a provided formula.

COURSE PROJECT

CS6023 GPU PROGRAMMING

Instructor : Rupesh Nasre

- **Improved** execution time by 40%–60% through parallel processing over sequential methods.
- **Leveraged** GPU programming techniques such as memory coalescing, and shared memory optimization to enhance performance and efficiency in my project.

CS6570 SECURE SYSTEM ENGINEERING

Instructor : N S Narayanaswamy

- **Applied** Secure System Engineering principles to identify and mitigate vulnerabilities, enhancing project security.
- **Executed** a return-to-libc attack, exploiting buffer overflow and ASLR weaknesses using C, Linux, and pwntools.

COURSES

- Operating System
- Advanced Programming Lab
- Advanced DataStructure and Algorithms
- Database
- GPU Programming
- Secure System Engineering
- Linear Algebra and Random Processes
- Computer Networks

SKILLS

C++, HTML, JavaScript, SQL, Machine Learning, MongodB, ExpressJS, ReactJS, NodeJS, BlockChain, Solidity, Google Cloud Platform, PostgreSQL, CUDA, Flask, DialogFlow.

POSITION OF RESPONSIBILITY

Graduate Teaching Assistant	*Held tutorials for students, resolved doubts and graded assignments.* ● CS6040 Router Algorithm and Architecture (Jul - Nov'2024)

EXTRA-CURRICULAR ACTIVITIES

Sports	● Swimming ● Cricket ● Chess