Sanjay Varun

Roll No. :210102075
B.Tech-Electronics and Communication Engineering
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	6.37 (Current)	2021-Present
Senior Secondary	CBSE Board	93.6%	2020
Secondary	CBSE Board	91.2%	2018

PROJECTS AND EXPERIENCE

- **MedSolu (OPC) Pvt Ltd**   *1 June - 15 July 2023 - Gurgaon*
  Software Engineering Intern
  - Developed a website utilizing **HTML, CSS** and **Django** backend, which collects live data from sensors such as **LM35, Pulse sensor, and ECG sensor**. The website exports and persists the data using **SQLite** storage.
  - Implemented **Arduino** with a **WiFi module** to collect **real-time data** from sensors like LM35, Pulse sensor, and ECG sensor. The data is posted to the website. The website allows users to create accounts and provides real-time database capabilities.

- **Tic-Tac-Toe Game**   *June 2023*
  Personal Project   Github
  - Use 2D arrays/matrices to represent the game board. Implement **Minimax algorithm** with **Backtracking** for optimal moves by the computer player
  - **Time complexity** of the Minimax algorithm has a worst-case of O(n!), but the average-case lower (considering Tic-Tac-Toe constraints).**Space complexity** is **O(3x3)** (game board size is fixed).
  - Verify player wins by checking rows, columns, and diagonals using algorithms on the game board

TECHNICAL SKILLS

- **Programming**: C , C++ , Python
- **Development**:HTML, CSS, Tailwind Css, Javascript* , React.js*, Django
- **Tools**/**Frameworks**: Github, Matplotlib, VSCode, SQLite, Git, Arduino, Matlab
- **Operating Systems**:Windows, Linux*   ** Elementary proficiency*

KEY COURSES TAKEN

- **Mathematics** :Linear Algebra, Basic Calculus, Probability and Random Processes
- **Computer Science** :Introduction to Computing, Data structures, Algorithms
- **Electronics and Communication** :Digital Systems, Analog System,Control System , Signals and Systems

POSITIONS OF RESPONSIBILITY

- **Junior Secretary DAAN Khabar**, Dakshana Foundation   *Jan. 2022 - Present*
  - Acted as Junior Secretary of **Dakshana Foundation**, facilitating all news regarding events and exam between Foundation and all over India students while organizing successful events like JDST and NDST Exam and various orientation.

ACHIEVEMENTS

- **Jawahar Navodaya Vidyalaya**, Secured **Rank 2** out of **9000** candidates in class 8th   *2016*
- **JDST Dakshana Foundation** , Secured a Sheet among **Millions** of students appearing form all over the India *2021*
- **JEE Advanced**,Secured an AIR 510 in SC category   *2021*
- **JEE Mains**, Secured 95 percentile   *2021*