



PRANAV ANAND PRAKASH SHARMA

B.Tech – Computer Science And Engineering

Gender: Male

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Educational Qualification

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2022-Present	B.Tech- CSE	NIT, Trichy	8.51
2022	Class XII	International Indian School, Al-Jubail, Saudi Arabia, CBSE	94.2%
2020	Class X	International Indian School, Al-Jubail, Saudi Arabia, CBSE	94.8%

Other Projects

- Real-time Chat Web App:** Jan 2024
It enables chatting between any two registered users. It has the feature to send notifications. The application front end uses **HTML**, **CSS**, **JavaScript**, and **React**. The backend server is built using **NodeJS**. The **MongoDB** database stores the chats and the user's registration details. A persistent connection is made using **Socket IO** to send and receive real-time messages.
- Weather Web App:** May 2024
It displays the weather of 3 cities on the home page. It also displays the weather of any city searched for in the search box. It displays cloud percentage, temperature, humidity percentage, wind speed and direction, maximum and minimum temperatures, feels like temperature, and time of sunrise and sunset. The front end is made using **HTML**, **CSS**, and **JavaScript**. The API used to get weather data is Weather API by Ninja.
- Multiple Destination Path Planner for Drone:** Jun 2024-Present
In this project, we are designing a path planner for a drone that covers multiple target destinations from a given starting point in the shortest distance possible and avoids the obstacles in between. We have used the **A* algorithm** to find the shortest path. We are now applying the Ant Lion Optimization algorithm and the A* star algorithm to find the global minimum path length path as the A* algorithm gets stuck in the local minima. The language used is **C++**.

Technical Skills and Certifications

- Programming Languages : C, C++, JavaScript, HTML, CSS
- Frameworks/Libraries : React, Socket IO
- Operating System : Ubuntu
- Tools : GitHub, Visual Studio Code, NodeJS, MongoDB
- Other Software : Microsoft Word, PowerPoint, Excel
- Certifications : Microsoft Office (Course offered by Microsoft Certified Trainer), Robotics (Course offered by Aerobotics 7), Artificial Intelligence(Course offered by Aerobotics 7)

Positions of Responsibility

- **Coordinator, Guest Lecture Team, Vortex:**

Jan 2024 - Present

Worked as a Coordinator of the Guest Lecture Team of **Vortex**, the National-level technical symposium of the Department of Computer Science and Engineering, NIT Trichy.

Extracurricular Activities

Social Activities:

- Took part in the **Cycle for Cause** event organised by **Pragyan'24** in association with Decathlon for awareness about Breast Cancer.

Sport Activities:

- Took part in the **10 km Marathon race** organised by **Sportsfete'23**.
- Took part in the **Yoga Day** celebration event conducted by **Omega Science and Spirituality Club** and performed various yoga asanas.
- Regularly participate in the various yoga and meditation sessions conducted by the **Omega Science Spirituality Club**.