Prateeksha Pandey

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EDUCATION

- Dr. BR Ambedkar National Institute Of Technology Jalandhar (2021-2025)   **CGPA 8.4**
- Rani Laxmi Bai Memorial School   **Class 10: 98.4% | Class 12: 91.6%**

SKILLS

Languages: C++, C, JavaScript, HTML, CSS, Python
Framework and Libraries: ReactJS, NodeJS, ExpressJS, NumPy, Pandas, Bootstrap, Scikit-Learn, Tailwind CSS
Tools and Platforms: Git, Firebase, MongoDB, Jupyter Notebook
Language: English, Hindi, Spanish (beginner)
Others: Artificial Intelligence and Machine Learning, Data Structures and Algorithms
Soft Skills: Problem Solving, Adaptability, Critical Thinking, Leadership

PROJECTS

SyntaxStories | *ReactJS, Firebase, Agora, ExpressJS, NodeJS, MongoDB* (visit)   *July 2023*

- Developed a web app with HTML, CSS, JavaScript, and ReactJS for teaching programming syntax through interactive stories, improving learning by 30%.
- Added features for creating and joining coding sessions, enhancing user engagement by 50% with realtime collaboration and interactive elements.
- Implemented backend with NodeJS, ExpressJS, and MongoDB, and used Firebase for authentication and hosting, reducing latency by 40%.

Sorting-Visualizer | *HTML, CSS, Javascript* (visit)   *January 2024*

- Created a web app with HTML, CSS, and JavaScript to visualize sorting, improving understanding by 30%.
- Enhanced algorithm accessibility and engagement by 50% with integrated animations and interactive elements.
- Deployed real-time updates during sorting, reducing latency by 40%.

EXPERIENCE

Research Intern | CAIR(Center of Artificial Intelligent and Robotics) IIT Mandi   *June-August 2024*

- Developed and implemented Python scripts for sensor fusion using Kalman filter algorithms to integrate DVL and IMU data.
- Created Python scripts to fetch IMU data from Pixhawk using QGroundControl and MAVLink protocol.
- Collaborated with a multidisciplinary team of researchers and students to enhance underwater GPS accuracy.

ROLE OF RESPONCIBILITY

Creative Head (Zeal Society): Organized various events to develop the intra-personal skills of the individuals.
Student Member (Departmental Undergraduate Commitee): Played a role in the decision-making of acedemic-related matters.
Beta MLSA (Microsoft Learn Student Ambassador): Hosted various Azure Cloud Skill Challenges and completed top Learning Paths.

ACHIEVEMENTS

- Finalist in Shooting Star Hackathon among 2000 participants.
- Done 350+ questions on Leetcode and Codechef.
- Finalist in Hack With India (top 40 participants) held at Microsoft Office Gurugram.