



Keshav Pareek

Bachelor of Technology
in Civil Engineering | Minor in CS
Indian Institute Of Technology, Ropar

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.94 (Till 5th Sem)	2022-2026
Senior Secondary	Central Board of Secondary Education	94.6%	2022
Secondary	Board of Secondary Education Rajasthan	89.33%	2020

PROJECTS

- **Text File Compression and Decompression** June 2024
C++ Huffman Algoritham **Github**
 - Implemented Huffman Coding, a lossless data compression algorithm.
 - Reduced data size by assigning variable-length codes to input characters based on their frequencies.
 - Generated optimal codes for each character.
- **Real-Time Collaborative Writing Tool** December 2024
HTML, CSS, JavaScript, Node.js, Express.js, EJS, Socket.io **Github**
 - Built a real-time collaborative text editor enabling multiple users to write and edit simultaneously on a shared document.
 - Leveraged WebSocket communication with Socket.io for low-latency updates, ensuring seamless synchronization between clients.
 - Gained expertise in real-time data synchronization, event-driven programming, and collaborative systems.
- **Simons Game** June 2024
HTML, CSS, Javascript **Github**
 - Created a digital version of the classic Simon game using HTML CSS JavaScript, jquery, implementing game mechanics, user interface, and sound effects.
 - utilized efficient algorithms for random sequence generation and pattern matching, ensuring smooth gameplay and accurate score tracking.
 - Developed robust error handling and user-friendly messages to guide players through the game, improving overall user experience.
- **Minor Projects:**
 - **1. DogDate:** Created landing page of simple websie using HTML CSS Bootstrap **Github**
 - **2. Lisper :** Developed a web-based application that generates and displays a unique secret message on each page refresh, using HTML, CSS, and JavaScript. **Github**

TECHNICAL SKILLS

- **Programming Languages:** C/C++, JavaScript, Java
- **Web Technologies:** HTML, CSS, Bootstrap, Node.js, Express.js, SQL
- **Tools & Libraries:** VSCode , Github , Arduino, MATLAB

KEY COURSES TAKEN

- **CSE & Maths :** Algorithm & Data Structure, Computer Architect, Calculas, Vector Algebra, Differential Equation, Probability & Statics.
- **Others:** Basic of electronics, Economics , Tinkering Lab.

POSITIONS OF RESPONSIBILITY

- **Co-ordinator,** SkyScraper Event, Advitiya, IIT Ropar Advitiya'23
- **Member,** Techno School Program, Zeitgeist, IIT ROPAR Zeitgeist'23

MISCELLANEOUS

- **Codeforces Rating,** 1300+ Codeforces
- **Leetcode,** 50 Days Badge, 245+ Problem Solved Leetcode
- **Codechef Rating,** 1500+ CodeChef