



Krishna Agarwal
Bachelor of Technology
in Computer Science and Engineering
Indian Institute Of Technology, Ropar

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GitHub | Website
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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	8.94 (Till 3rd Sem)	2023-2027
Senior Secondary	Central Board of Secondary Education	96.8%	2023
Secondary	Central Board of Secondary Education	98.6%	2021

PROJECTS

- **Idea-Nest** June 2024
Github
 - Developed a collaborative platform using React and Firebase, where users can submit their ideas, view, and engage with ideas shared by others.
 - Implemented secure user authentication and data storage using Firebase Authentication and Firestore to manage user-generated ideas efficiently.
 - Designed a responsive and intuitive interface to ensure seamless navigation and engagement across devices.
- **Weather App** December 2024
Github
 - Designed and implemented an intuitive weather app using React and Tailwind CSS, integrating the OpenWeather API to provide real-time weather data based on user location.
 - Delivered insights like temperature, humidity, air quality, and health tips, making the app suitable for daily use and environmental awareness.
- **Sudoku Swift** August 2024
Github
 - Built a fully functional Sudoku solver application using React, enabling users to solve Sudoku puzzles with a user-friendly interface.
 - Utilized the backtracking algorithm to efficiently solve Sudoku puzzles in real-time, ensuring accurate and fast solutions.
 - React's state management to handle user inputs, validate puzzle entries, and track the solving process dynamically.

COURSE PROJECTS

- **Geographical Region Statistics using 2D Segment Tree** October 2024
Dr. Anil Shukla **Github**
 - Developed a C application using a 2D Segment Tree to monitor environmental statistics (temperature, humidity, air quality) over a geographical grid, enabling efficient storage and querying.
 - Optimized retrieval of sum, average, min, and max for rectangular sub-regions with $O(\log(m) \times \log(n))$ complexity for grids of size $m \times n$, showcasing advanced data structure applications.
 - Demonstrated real-world use cases like weather monitoring, pollution tracking, and forest fire risk prediction by processing large datasets efficiently.

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, Javascript, HTML, CSS
- **Areas of Interest:** Data Structures and Algorithms, Competitive Programming
- **Soft Skills:** Public Speaking, Event Management, Team Work, Leadership

KEY COURSES TAKEN

- **CSE & Maths:** Algorithm & Data Structures, Discrete Math, Digital Logic Design, Linear Algebra, Calculus
- **Others:** Professional Communication, History of Technology, Economics
- **Running:** Programming Pragmatics and Paradigms, Computer Architecture

POSITIONS OF RESPONSIBILITY

- **Media and Outreach Co-ordinator**, Dance Club-IIT Ropar June 2024 - Present
- **UG Mentor**, Indian Student Mentorship Programme , IIT Ropar July 2024 - Present
- **Web Development Team**, Indian Student Mentorship Programme , IIT Ropar May 2024 - June 2024

MISCELLANEOUS

- **Myntra HackerRamp:WeForShe 2024** ,
Selected from a pool of **29,643** candidates to advance to the top **1,214** 2024
- **Codess Cafe - Mentee**, - Selected among **1200+** applicants 2024
- **Institute Scholarship**, - Recieved Institutional Merit Scholarship for being in **top 7** percent of the batch 2023
- **JEE Advanced 2023**, - Secured an All India Rank of **4212** 2023
- **JEE Mains 2023**, - Secured a percentile of **99.67** 2023