



# Kartikey Singhal

Third-Year Undergraduate  
Bachelor of Science in Chemistry

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## Academic Qualifications

Year	Degree	Institute	CGPA/Percentage
2022-Present	BS	Indian Institute of Technology, Kharagpur	8.09/10
2022	Senior Secondary	Sarvodaya Senior Secondary School, Kota	93.8%
2020	Matriculation	Modern School, Kota	95.4%

## Achievements and Honors

- Secured a rank under top 1.6% among total 10.2 lakh candidates in Joint Entrance Examination (JEE) Main Exam.
- Secured a rank under top 7% among total 1.5 lakh candidates in Joint Entrance Examination (JEE) Advance Exam.
- Bagged **3rd** position among 17 teams in Cricket-General Championship 2023, Indian Institute of Technology Kharagpur.
- Online Judges- **CodeChef**: Maximum Rating – **1622 (3 star)** | [Profile](#)
- Secured a **Global Rank** of **164, 390** and **525** in CodeChef Starters 139, 138 and 116 among 25K+ participants respectively.

## Projects

**Portfolio website** | [Website](#) | [GitHub](#) (June 2024)

- Designed, developed and deployed a professional portfolio website to effectively a comprehensive array of personal projects, skills, and an in-depth overview of my professional capabilities, ensuring it serves as a robust digital resume.
- The site features a **clean and responsive design**, optimized for both desktop and mobile devices, ensuring a seamless user experience along with a toggle between light and dark theme to enhance user’s overall experience upon visiting.
- Implemented a user-friendly and accessible **"Contact"** section that enables visitors to effortlessly send messages via email, facilitating inquiries, feedback, opportunities for collaboration, and direct communication for potential partnerships.

**Cryp-Pro (In Progress)** | [GitHub](#) (June 2024)

- Developed a robust **Crypto Tracker** web application using **ReactJS**, aimed at delivering real-time tracking and detailed analysis of diverse cryptocurrencies, thereby enhancing user insights and informed decision-making processes.
- Effectively utilized external **APIs** to fetch real-time cryptocurrency data, ensuring the application delivers precise updates on prices, market trends, and historical performance, providing users with reliable and up-to-date financial information.
- Implemented interactive charts using **Chart.js** to effectively visualize comprehensive historical cryptocurrency data, significantly enriching user engagement and profoundly enhancing understanding of evolving market trends and insights.
- Initiated robust **backend** functionalities with the successful implementation of user authentication mechanisms, currently focusing on optimizing database integration for delivering personalized user experiences tailored to individual preferences.

**C++ Console Based Projects** | [GitHub](#) (May 2024)

- Engineered intuitive console-based applications, such as a versatile Calculator and captivating games like Tic-Tac-Toe and Number Guessing Game, leveraging knowledge in Data Structures and Algorithms to deliver immersive user interaction.

**Car Parking System using Arduino** | [YouTube](#) (May 2023)

- Engineered and deployed an automated car parking system using **Arduino** technology, designed to significantly enhance operational efficiency, user experience, and sustainability through innovative solutions and advanced sensor technologies.
- Engineered robust automated processes for precise vehicle detection, seamless entry, and efficient exit, effectively optimizing parking space utilization and significantly improving overall operational efficiency and customer satisfaction.
- Collaborated effectively with interdisciplinary team members to ensure the seamless integration of hardware and software components, thereby enhancing system reliability, functionality, and user satisfaction through coordinated efforts.

## Relevant Coursework and MOOCs

Programming and Data Structures (Theory and Lab) | Probability and Statistics | Algozenith (applied Algo and DS)

## Technical Skills

- Programming Languages and Libraries:** C | C++ | JavaScript | Standard Template Library (STL) | ChartJS
- Frontend Development and Tools:** HTML | CSS | ReactJS | Bootstrap | Visual Studio Code | SolidWorks | PyMOL
- Familiar in:** Git | NodeJS | ExpressJS | MongoDB

## Position of Responsibility

**Kshitij Campus Affiliate** | Techno-Management fest- **Kshitij**, Indian Institute of Technology Kharagpur (January 2023)

- As part of a dedicated team, successfully orchestrated **Asia's largest Techno-Management fest** at Indian Institute of Technology Kharagpur, showcasing exceptional event management skills, planning, and collaborative leadership abilities.
- Independently carried out the **Droid Blitz** Event, a cornerstone of the fest, meticulously ensuring its seamless execution, encouraging high participant engagement, and receiving positive feedback from a diverse range of attendees.