

Kartikeya Shukla

Third Year Undergraduate

Department of Chemistry

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ACADEMIC QUALIFICATIONS * Present CPI

Year	Degree/Certificate	Institute	CPI/%
2022 - Present	B.S	Indian Institute of Technology Kanpur	6.7*/10
2022	Class XII (CBSE)	Woodbine Gardenia School, Kanpur	84.4%
2020	Class X (CBSE)	Woodbine Gardenia School, Kanpur	96.4%



SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 7968** in **JEE Advanced 2022** among 160k shortlisted candidates, conducted by IIT Bombay 2022
- Received the **INSPIRE** scholarship, provided by the Department of Science and Technology, Government of India 2023
- Secured **All India Rank 20041** in **JEE Main 2022** among more than 1 Million Candidates, conducted by NTA 2022



WORK EXPERIENCE

- Development Intern, Ivixia Tech Labs** (May'24-Present)
 - Working on the **LAMP tech stack** as a **Back-end developer** for an IT startup to develop various features for two projects
 - Implemented **Soketi** for real-time communication, **developed moderator** functionality for real-time message handling
 - Reduced** downtime from 3000ms to 500ms by optimizing **asynchronous operations** using JavaScript during server outages
 - Developing a **custom OneSignal dashboard** for unrestricted push notification delivery to millions of users (ongoing)

KEY PROJECTS

- LeetCode WhiteBoard** | Programming Club, IIT Kanpur  **GitHub** (May'24- July'24)
 - Developed an **online whiteboarding platform** for leetcode problems for users to draw solutions and save it for future
 - TypeScript-based Next.js** Frontend implemented to design and develop the application, successfully deployed on Vercel
 - Implemented **localStorage** for saving user data persistently, **linking** each whiteboard to it's corresponding problem ID
 - Integrated Excalidraw** whiteboard and implemented **dynamic routing** to link each problem ID with its whiteboard
- Companion Arbiter PUF - Course Project**  **GitHub** (Jan'24- Apr'24)

Supervisor: Prof. Purushottam Kar, Dept. of CSE, IITK

 - Worked in a six-member team to develop an **efficient ML model** for breaking **PUF combinations** using **scikit-learn**
 - Built **feature vectors** from training data and mapped them into a **561-dimensional** matrix for efficient model training
 - Achieved **99.29% accuracy** by training the ML model using sklearn's LinearSVC and Logistic Regression models
 - Conducted experiments with **sklearn's LinearSVC** to analyze **hyperparameter effects** on training time and test accuracy
- Blog Website** | Self project  **GitHub** (Jan'24- Feb'24)
 - Developed a blogging platform with **CRUD** functionality, allowing users to seamlessly create, edit, view, and delete posts
 - Implemented Frontend using **ReactJS & CSS** to create a **user-friendly, responsive**, well-structured functional website
 - Implemented **post filtering** and display functionality, leveraging **routing** for efficient navigation between pages
 - Developed a server using **Axios** to fetch and display data on the Frontend, enhancing UX with **dynamic** content loading
- To-Do List** | Self project  **GitHub** (Nov'23-Nov'23)
 - Developed a **website** to keep track of day-to-day work that is capable of storing tasks that need to be completed any day
 - Implemented **ReactJS & CSS** to develop a responsive app, optimizing performance through efficient **state management**
 - Implemented data persistence using **localStorage** to ensure data is **fetch**ed back and accessible when the app is reopened

TECHNICAL SKILLS

Programming Languages	Libraries	Framework	Software
C, C++, PHP, JS, HTML, CSS, Tailwind-CSS	ReactJS, Scikit-Learn	Next.js	MySQL, Apache, Git, L ^A T _E X

RELEVANT COURSES

Introduction to Machine Learning Linear Algebra and Differential Equations Economy, Society & Public Policy	Fundamentals of Computing Real Analysis Practical Ethics	Introduction to Electronics Introductory Sociology Classical Electrodynamics
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POSITION OF RESPONSIBILITY

- Organiser | English Literary Events, Antaragni** (June'24-Present)
 - Expanding and organising **Antaragni**, one of Asia's largest college fests, by adding two new events
 - Heading 60+ Secretaries & 90+ volunteers, through delegating, and overseeing their duties
 - Responsible for conduction of all English Literary Events for a footfall of 25,000 from all over India

EXTRA-CURRICULAR

- Member of the 2-UP-CTR division of the National Cadet (NCC) in freshman year
- Participated in Cricket Tournament in **Inferno'22** which is a Inter Hall Competition at IIT Kanpur