Kartikeya Shukla

2nd Year Undergraduate
Department of Chemistry

Email : kartikeyas22@iitk.ac.in
Phone : +91-9005998999

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2022 - Present	B.S	Indian Institute of Technology, Kanpur	7.0/10
2022	CBSE(XII)	Woodbine Gardenia School, Kanpur	84.5%
2020	CBSE(X)	Woodbine Gardenia School, Kanpur	96.4%

Scholastic Achievements

- Secured **All India Rank 7968** in **JEE Advanced 2022** among the 1.6 Lakh shortlisted candidates
- Scored **97.79 percentile** in **JEE MAIN 2022** among 1.1 million candidates
- Recipient of the **INSPIRE** scholarship, provided by the **Department of Science and Technology**, Government of India

Key Projects

- **Companion Arbiter PUF - Course Project**   *(Jan'24- Apr'24)*
  Supervisor: Prof. Purushottam Kar, Dept. of CSE, IITK
  - Worked in a six member team to build a **high efficient ML model** to **break combination of PUF** using **sckit-learn**
  - Build the **feature vectors** using given train data and then mapped them to make matrix of **dimensionality 561**
  - Used **LinearSVC** & **Logistic Regression model** to train the ML model which gave us an **accuracy of 99.29**%
  - Applied **PCA reduction technique** to reduce dimension of new feature vector and succesfully reduced till 528
- **Blog Website** | Self project ⌘**Github**   *(Jan'24- Feb'24)*
  - Developed a **website** for posting Blogs, with features of **editing** and deleting existing posts, in **real time**
  - Implemented **React Js** to make the **structure**, functionality and design of a **user-friendly** website
  - Build the **backend** of website responsible for handling **data storage** and fetching **API**
  - Wrote a function that **filter** out relevant posts on search and **display** them and implemented **routing** to link each page
- **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 **React Js** in **Frontend** to design and develop a user-friendly **responsive** application
  - Build the **backend** logic for storing the data, so that when a user reopens the app, their data gets **fetched** back
- **Beverages Application** | Self project ⌘**Github**   *(Dec'23-Jan'24)*
  - Developed a **web app** for exploring cocktails, featuring sections like navbar, search, cocktail list, details, and error page
  - Implemented **Frontend** in **React Js** to design and develop structure of the app
  - **Mapped information** of cocktails to display them on home page and implemented **routing** to link each page
- **Exploring React in Java-Script** | Self project ⌘**Github**   *(oct'23-dec'24)*
  - **E-Portfolio:** Developed a user-friendly **responsive** personal **portfolio** showcasing my skills in **React Js**, **tailwind CSS**
  - **Color Changer** Build a simple app which **changes color** as user input a color name or a hex value using **react Js**
  - **Shopping-List:** Build a user-friendly responsive **website** in which a user can add day to day household items to buy
  - Data gets saved in a **JSON file** and when a user reopens the app, the data gets **fetched** back and gets displayed

Technical Skills

- **Programming Languages:** C, C++, HTML, LaTeX, JS, CSS, Tailwind-CSS, Python
- **Software and Libraries:** Git, React, Numpy, Pandas, Matplotlib, Scikit-Learn, AutoCAD

Relevant Courses

Introduction to Machine Learning	Fundamentals of Computing
Introduction to Electronics	Linear algebra and Differential Equations
Real Analysis	Classical Electrodynamics

Extra-Curricular Activities

- Participated in Cricket Tournament in **Inferno'22** which is a inter hall competition
- Participated in School **cricket tournament**