

# Pranjal Sharma

Third Year Undergraduate | Department of Biological Sciences and Bioengineering

✉ pranjals20@iitk.ac.in | ☎ +91-7974627141 | 📄 <https://github.com/pranjalsharma-838> | in pranjalsharma838

## Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2020-Present	B.Tech in Biological Sciences and Bioengineering	Indian Institute of Technology, Kanpur	7.77/10
2020	Class XII (CBSE)	Sanskar Public School, Gwalior	94%
2018	Class X (CBSE)	St. Paul's School, Gwalior	89%

## Achievements

- Secured an All India Rank of **7041 in JEE (Advanced-2020)** examination among 250k candidates.
- Ranked among the top **1.11%** out of 1.2 million candidates in **JEE (Main-2020)** examination.

## Professional Experience and Key Projects

### Amazon-Clone

- Cloned an ecommerce website using Node.js, Express.js, firebase and Stripe in the backend.
- Used React.js and Material Ui to develop the front end part.
- Implemented user authentication using firebase and also used firestore that served as a database to store the order history of user.
- Used React Context Api to store order list of user and implemented Stripe for the payment process.
- Deployed the frontend of web app on netlify and backend on heroku cloud service.

### Hand Gesture Recognition System

- Developed a Machine Learning (SVM) based hand movement recognition system.
- Implemented the SVM in OpenCV to map 5 different hand movements to keyboard actions.

### Ropeway Trolley | 3D Model

(Prof. Shashank Shekhar | Aug’21-Nov’21 )

- Course Project for TA201A- Manufacturing Processes - I.
- Ideated, conceptualized and designed a working model of a Ropeway Trolley using manufacturing processes like casting, cutting, riveting and adhesive joining.
- Designed 3D model of the prototype using softwares such as **AutoCAD and Fusion 360**.

### Teaching | Cambridge School

- Taught Mathematics and Physics to class 10th and 12th **CBSE** students during college semester break.

## Technical Skills

- **Programming:** C, C++, Python, HTML, CSS, React.js
- **Utilities:** : Git/Github, Visual Studio Code, Canva, L<sup>A</sup>T<sub>E</sub>X
- **Mechanical:** AutoCAD Fusion, MS Office, Micro-Cap

## Relevant Courses

Priciples of biotechnology Biochemistry Fundamentals of Computing Probability and Statistics Multivariable Calculus 100 Days of Code: Python Bootcamp (Coursera)	Biochemical engineering Organ System, Physiology and Anatomy Introduction to Electronics Linear algebra and Differential Equations Fluid Mechanics Data Structure and Algorithms using C and C++ (Coursera)
---	--

## Extra-Curricular Activities

### Sports:

- Currently a part of **Athletics team of IIT Kanpur**.
- Begged a **Bronze medal** for the team in **Udghosh 2021**. (Overall Winners)

### Managerial :

- **SENIOR EXECUTIVE** - Udghosh  
Worked with the marketing team of Udghosh; India’s biggest sports carnival.  
Also worked as POC (Person of contact) for participating teams.
- **SECRETARY** - Raktarpan  
Conducting exciting awareness sessions among campus community for upcoming blood donation camps and spreading awareness about the need for a better impact.  
Contributing help to the needful by contacting interested live donors from the campus during emergency cases.  
Assisting in the organisation of blood donation camps which typically collect 200 units of blood.