

Pranjal Sharma

Third Year Undergraduate | Department of Biological Sciences and Bioengineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2020-Present	B.Tech in Biological Sciences and Bioengineering	Indian Institute of Technology Kanpur	8.00/10
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 **150k** candidates
- Ranked **12931** out of **1.2 million** candidates in **JEE (Main-2020)** examination
- Awarded **A*** grade for outstanding performance in the course Image Processing

Professional Experience and Key Projects

Amazon-Clone | Self-Project *<https://github.com/pranjalsharma-838/amazon-fullclone>*

- Cloned an e-commerce 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 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 | Self-Project *<https://github.com/pranjalsharma-838/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
- Deciphered and debugged the code to further increase functionality by 10 percent and resolved all terminal-related conflicts

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

- Utilised the semester break by delivering in-person lectures in Mathematics and Physics to students appearing for class 10th and 12th CBSE Board Exams.
- Developed soft-skills like communication, leadership, team-work and punctuality

Technical Skills

- **Programming:** C, C++, Python, HTML, CSS, Javascript
- **Frameworks and Libraries:** React, Express, Numpy, Pandas, Scikit-learn
- **Utilities:** Git/Github, Visual Studio Code, Canva, \LaTeX
- **Mechanical:** AutoCAD Fusion, MS Office, Micro-Cap

Relevant Courses

100 Days of Code: Python Bootcamp (Udemy) Probability and Statistics Linear algebra and Differential Equations Multivariable Calculus Priciples of Biotechnology Molecular Cell Biology	Data Structure and Algorithms using C and C++ (Udemy) Fundamentals of Computing Introduction to Electronics Image Processing Biochemical engineering Organ System, Physiology and Anatomy
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Extra-Curricular Activities

Sports:

- Bagged a **Bronze medal** for the team in **Udghosh 2021, Overall Gold**
- Currently a part of **Athletics team of IIT Kanpur**

Managerial:

- **SENIOR EXECUTIVE** - Udghosh
Planned and scheduled events consisting of over **20,000+** participants among 18+ sports events and competitions
Coordinated with heads and other senior executives to organise an online sports quiz consisting **5000+** participants
Also worked as POC (Person of contact) for participating teams

Volunteer work:

- **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