Pranjal Sharma

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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	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 **150k** candidates
- Ranked **12931** out of **1.2 million** candidates in **JEE (Main-2020)** examination

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

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

Extra-Curricular Activities

Sports:

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

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