Prachi Choudhary

Junior Undergraduate
Department of Computer Science and Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2021 - Present	B.Tech	Indian Institute of Technology, Kanpur	6.3/10
2020	RBSE(XII)	Pratibha Sr. Sec. School	90.0%
2018	RBSE(X)	St. Austin's Sr. Sec. School	93.17%

Scholastic Achievements

- Secured All India Rank 3008 in JEE Advanced, organised by IIT Kharagpur, out of 1.2 lakh candidates nationwide.
- Secured All India Rank 7992in JEE Main, organised by the National Testing Agency, out of 15 lakh candidates nationwide.
- Received **PMSS Scholarship'21** under *National Defence Fund* by being selected in the merit list

Key Projects

- **Supervised ML for Business Analysis | ACA, CSE** *(May'23-ongoing)*
  - Learnt about the applications of Supervised ML in business analytics, getting insight into association rule and market-based analysis
- **Algorithmic Graph Theory | ACA, CSE** *(May'23-ongoing)*
  - Understood the mathematical tools necessary for algorithmic graph theory
  - Learnt about MST algorithms, shortest paths algorithms, and some modern graph theory concepts and their applications
- **MapGo:IITK-map | Course project, IITK** *(Jan'23 to April'23)*
  - Developed IITK-Map with event scheduling using **MERN** Stack (MongoDB, Express.js, React.js, Node.js)
  - Experienced in unit testing, integration testing, and system-level testing covering greater than 80% of the various features
  - Understood the requirements analysis, design, and implementation techniques
- **Image Processing and Computer Vision |Stamatics Club, IITK** *(May'23-July'23)*
  - Learning about sampling and quantization, Image enhancement, Spatial domain analysis, frequency domain analysis, Edge detection, Image segmentation using **ML** algorithms, Image denoising, important probability distributions and their usage

Technical Skills

- **Programming Languages:** C, C++, HTML, CSS, LaTeX, MATLAB, Python, JavaScript
- **Software and Libraries:** Git, Tensor Toolbox, Panda, Fusion360, MongoDB, OpenCV, Verilog HDL, VScode, Sklearn, Matplotlib, Numpy, Node.js, React.js

Positions of Responsibility

- **Senator BT/BS Y21** *(2022-23)*
  - Became a part of the Students' Senate(governing body of Students' Gymkhana) after being elected by 1200+ electorate
  - Actively took part in proposal and bill discussions, and helped in carrying out initiatives by Students' Gymkhana
  - Communicated regularly with my batchmates, faculty, and administration to address concerns and advocate for my batch
- **Senior Executive, UDGHOSH'22** *(July'22-Oct'22)*
  - Under Media-Publicity wing, worked as POC for several media partners for the fest, hosted multiple events during the fest
  - Major learning exclusive to this experience includes event planning and organization, budgeting and financial management
- **Student Nominee, Cell Affairs Committee, Students' Senate** *(2022-23)*
  - Learned to manage the official workings of various cells and maintained a cell manual that defines the powers and bounds of each cell body, e.g. Entrepreneurship Cell, Public Policy and Opinion Cell etc.
- **Secretary, Humour House** *(2022-23)*
  - Joined the official comedy club of IITK and performed several times in front of 300+ audience
  - Guided and encouraged the campus community to actively participate in club activities by conducting workshops regularly
  - Helped juniors and fellow secrataries in improv-comedy and set-writing for various events

Relevant Courses

Data Structure and Algorithms	Computer Organisation
Fundamentals of Computing	Linear Algebra and Ordinary Differential Equations
Introduction to Economics	Introduction to Electronics
Mathematics for Computer Science (Logic)	Software Development and Operations
Probability	ML Specialization, Stanford University, Coursera* (ongoing)

Extra-Curricular Activities

- Worked on the website for **Hall 6, IIT KANPUR**.
- Bagged **1st position** in **GameofAuctions**, as a team, conducted by Entrepreneurship Cell, IITK

- Played Handball at the **district** level as a part of the school team
- Actively participated in **Freshers Showcase** and Orientation'22 from Dance Club
- Led the participation of **Shauryas' pool** in the **Humour Competition, Galaxy'23**