

Krishna Prajapati

Senior Undergraduate

Department of Mechanical Engineering

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2022 - Present	B.Tech	Indian Institute of Technology, Kanpur	5.7/10
2022	CBSE(XII)	Vidyashram Public School, Kota	90.2%
2020	CBSE(X)	Pt. Deen Dayal Upadhyaya Sanatan Dharma Vidyalaya	95%

Scholastic Achievements

- Secured **All India Rank 6881** in the Common Rank List in **JEE Advanced 2022** among the 1.5 Lakh shortlisted candidates
- Ranked in the **top 2%** of the **1.5 million** applicants in the Common Rank List in **JEE Mains 2022** conducted nationwide
- Secured **4079** international rank in **2nd** level of SOF-18th NSO (**National Science Olympiad**) being among top performers .
- Secured **international rank 2891** in **2nd** level of 9th SOF IMO(**International Mathematics Olympiad**)

Entrepreneurial Project

Social Media App <i>Reeasy</i>	(Aug '25-Present)
Objective	<ul style="list-style-type: none"> Boosting citations and visibility for PhD scholars through an AI-driven academic social media platform Building a system that converts research papers into engaging micro-content enhancing overall interest easily
Strategy	<ul style="list-style-type: none"> Building the MVP using React Native, Appwrite with scalable APIs and modern UI/UX in Figma. Applying NLP, generative AI models (PyTorch) to convert abstract to scripts, chat between user&creator
Progress	<ul style="list-style-type: none"> Currently developed the app prototype and tested on Phd students it by creating reels, in a 2-member team

Key Projects

Autonomous Self-Exploratory Robot <i>Self Project</i>	(Aug '25)
<ul style="list-style-type: none"> Designed autonomous robots for self-exploration in unknown environments, enabling dynamic adaptation Applied deep reinforcement learning algorithms (e.g., DQN) and used simulation environments (Gazebo, PyBullet) Integrated LIDAR and camera systems to enhance environmental perception and optimize decision-making. 	
Bicycle Drivetrain Reverse Engineering <i>Course Project, ME351</i>	(Mar '25-Apr '25)
<ul style="list-style-type: none"> Collaborated Designed with a team of 8 members to develop a highly detailed 3D CAD model of a bicycle drivetrain Analyzed structural performance under various loads using Fusion 360 and MATLAB simulations, ensuring design robustness Calculated torque transmission, chain tension, load distribution, and evaluated fatigue characteristics to assess durability 	

YouTube Video– “Why You and IITians Are Just SURVIVING” <i>Self Project</i>	(Sep '24-Dec '24)
Objective	<ul style="list-style-type: none"> Produced 20-minute, professional documentary in a style inspired by Dhruv Rathee, Nitish Rajput videos Explored the struggles faced by Indian students through research-driven storytelling and production
Approach	<ul style="list-style-type: none"> Conducted surveys and in-depth interviews with diverse IITians, non-IITians, and regular college students Crafted a compelling script ,professional video editing and optimized with SEO and Google ads campaign
Impact	<ul style="list-style-type: none"> Audience Reach: Garnered 4,200+ views on the very first upload, proving strong audience resonance Got other 12k+ views by additionally creating an Instagram reel, post, Youtube short across platforms

Product Engagement

Capstone Project <i>ProductClub and Accelerator</i>	(Aug '25-Sep '25)
<ul style="list-style-type: none"> Analyzed real-world product challenges and created presentation-ready case studies, including a detailed PRD for IXIGO Selected among top 30 students in competition and gained industry insights from expert PMs to enhance problem-solving 	

Technical Skills

• Programming Languages: C, C++, L ^A T _E X, CSS, HTML, React Native, SQL
• Software: Figma, Fusion 360, Appwrite, GitHub, Simulink
• Editing Softwares : Adobe Premiere Pro, SEO optimization, Google Analytics, Adobe After Effects, Adobe Photoshop, Canva

Relevant Courses	*- Ongoing
Embedded and Cyber-Physical Systems*	Computer Aided Design*
Cognitive Science of Multilingualism	Fundamentals of Computing
	Robotics
	Linear Algebra Differential Equations

Positions of Responsibility

Organizer, Udghosh'25 <i>Web Dev</i>	(Aug '23 - Sep '23)
<ul style="list-style-type: none"> Led a 12-member team to design and develop the Udghosh website, creating a 3D, dynamic UI with animations GSAP library Implemented live streaming for sports events on mobile, providing real-time access during the festival, increasing web traffic Improved UI/UX, reducing website and app bounce rate by 25 % through intuitive design enhancements increasing registrations 	
Core Group Member <i>Vox Populi (Journalism Body) IITK</i>	(Jan '25-Present)
<ul style="list-style-type: none"> Contributed to article with editors on key challenges faced by IITK students by collaborating with the editorial team Conceptualized and drafted the script for a creative short video project on “Perfect Interview” 	

Extra-Curricular Activities

Mentorship	<ul style="list-style-type: none"> Coordinated and taught dance to more than 15 freshers in Galaxy'23 and developed their interest further
Dance	<ul style="list-style-type: none"> Performed in a FlashMob dance in front of approximately 500 people at Zsquare Mall, Kanpur Secured 1st position in dance act and performed in 2 more competitions in Galaxy'23 for Hall12
Sports	<ul style="list-style-type: none"> Achieved Gold in the team Taekwondo event at Senior Inferno'23 IITK, earning significant points for Hall 12 Reached the semi-finals out of 10 competitive teams in the Futsal'25 football tournament in Hall 12