

Krishna Prajapati

Senior Undergraduate
Department of Mechanical Engineering

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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 | *Reeasy* 🌐 (Aug'25-Present)

Objective	<ul style="list-style-type: none">Boosting citations and visibility for PhD scholars through an AI-driven academic social media platformBuilding 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 | *Self Project* 🌐 Aug'25

- 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 | *Course Project, ME351* 🌐 (Mar'25-Apr'25)

- 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” | *Self Project* 📺 (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 videosExplored 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 studentsCrafted 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 resonanceGot other 12k+ views by additionally creating an Instagram reel, post, Youtube short across platforms

Product Engagement

Capstone Project | *ProductClub and Accelerator* (Aug'25-Sep'25)

- 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++, \LaTeX , 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*	Robotics
Cognitive Science of Multilingualism	Fundamentals of Computing	Linear Algebra Differential Equations

Positions of Responsibility

Organizer, Udghosh'25 | *Web Dev* (Aug'23 - Sep'23)

- 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 | *Vox Populi (Journalism Body) IITK* (Jan'25–Present)

- 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, KanpurSecured 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 HallReached the semi-finals out of 10 competitive teams in the Futsal'25 football tournament in Hall 12