

## Tushar Verma

Final Year Undergraduate Department of Chemical Engineering Indian Institute of Technology Kanpur Garud218 ↑
Tushar Verma in
+91-7015605516 ↓
tuhar22@iitk.ac.in ☑
Tushar-Verma-25 ▼

# EDUCATION

Year	Qualification	${\bf School/Institution}$	$\mathrm{CPI}/\%$
2022-Present	B.Tech	Indian Institute of Technology Kanpur	7.5/10
2022	CBSE XII	Satluj Public School, Sirsa, Haryana	93%
2020	CBSE X	Satluj Public School, Sirsa, Haryana	94%

### SCHOLASTIC ACHIEVEMENTS

- Awarded the Merit-cum-Means Scholarship by IIT Kanpur annually since 2023, given to the top 1% meritorious students.
- Secured All India Rank 3985 in JEE Main 2022 conducted by National Testing Agency, amongst 1.5M appeared participants.
- Secured All India Rank 7673 in JEE Advanced 2022 conducted by IIT Bombay, amongst 0.5M shortlisted candidates.
- Received Silver Honor (Top 7%) in the International Youth Math Challenge 2020 among 6,500+ global participants.

## WORK EXPERIENCE

#### Product and Strategy Intern

Aug'24 - May'25

 $HealthQuant\ Pvt.\ Ltd.\ |$  Startup, IIT Kanpur

- Contributed to successful fundraising exceeding INR 20L by preparing investor pitch decks and market-facing materials for stakeholder engagement.
- Collaborated with **co-founders** to refine **business strategy**, driving **investor outreach** for sustainable growth.
- Designed UI prototypes and digital assets that increased prelaunch client engagement by over 30%, supporting strategy for upcoming product launches.
- Supported establishing **key strategic connections** with the **Ex-Head of Abbott India**, now serving as an **advisor** and on the **Cap Table**.

## KEY PROJECTS

## Lexora: Legal Advice Platform ▶

Jun'25 - ongoing

 $Self\ Project\ |\ IIT\ Kanpur$ 

- Defined the **product vision** for a **mobile-first platform** to bridge the market gap between legal questions and expert advice, creating a trusted, **community-driven ecosystem**.
- Architected the end-to-end user journey, mapping out streamlined user flows and a clear information architecture to build a foundation of user trust and accessibility.
- Designed a clean, **user-centric UI** with a minimalist aesthetic, implementing a **client-side caching** strategy and features like light/dark modes to ensure a seamless, performant experience.
- Prioritized the real-time community feed as the primary engagement engine, engineering a compelling feedback loop with an upvote/downvote system to drive user retention.

## Visual Data Forecaster (7) Self Project | Dashboard (8)

Aug'25 - ongoing

- Developed a dynamic and **interactive web application** from scratch, using **vanilla JavaScript**, HTML5, and CSS3 to perform **time-series analysis** and visualize predictive trends.
- Implemented a versatile forecasting engine featuring multiple statistical models, including Linear Regression, Polynomial Regression, and Double Exponential Smoothing.
- Engineered a fully responsive and intuitive user interface with Tailwind CSS, featuring a data exploration dashboard with dynamic charts powered by Chart.js.
- Integrated analytical features, including automated model insights and statistical confidence intervals, to empower users with reliable, data-driven decision-making capabilities.

## Computer Graphics Project 🖸

Aug'25 - ongoing

 $Self\ Project\ |\ IIT\ Kanpur$ 

- Engineered a dynamic 2D animated scene from scratch using WebGL and JavaScript, implementing linear algebra concepts like affine transformations for object kinematics.
- Architected the renderer with modular JavaScript functions for three distinct rendering modes (Solid, Wireframe, Point), ensuring code reusability and maintainability.
- Designed scalable architecture prepared for future enhancements, including 3D scene transitions, dynamic lighting models, and interactive camera controls.

## Virtual Chemical Industry 🗘

Mar'24 - Apr'24

Course project: ChE261 | Prof. Raghavendra Ragipani

- Conducted a comprehensive market opportunity analysis
  to identify high-value specialty chemicals, assessing the competitive landscape and evaluating its potential for market entry.
- Developed a robust prioritization framework based on business metrics, including profitability, supply chain availability, and safety, to systematically screen candidate products.
- Made a **data-driven decision** by synthesizing insights from government reports, industry databases, and import/export data, selecting **Aspartame** as the target product for development.

# Graphics and Shaders: 3D Renderer Jun'23 - Aug'23 Game Development Club | IIT Kanpur

- Worked with a team of 7 fellow-mates and 2 mentors to develop a 3D renderer using computer graphics and shaders.
- Gained hands-on experience with C++, C, CMake for cross-platform build automation, and OpenGL.
- Implemented a custom fragment shader that enhanced visual quality and optimized the real-time rendering pipeline.

### KEY SKILLS

- Programming: Python, HTML, CSS, Js, Dart, MATLAB, Git
- Technical: Manim, A/B Testing, Wireframing & Prototyping
- Design: Figma, Adobe Creative Suite, Canva, Blender, Spline.

## Positions of Responsibility

#### Member, Finance Committee

Aug'24 - Apr'25

- Elected by **75**+ Senate panel to the **4-member** Gymkhana F.C.
- Managed an INR 2Cr+ budget and revised financial policies, achieving a 50% reduction in unnecessary expenditures.

#### Organiser, Udghosh'23

Jul'23 - Dec'2

• Designed digital/print media, website/app UI/UX, and marketing collateral, ensuring a cohesive brand experience with Figma and the Adobe Creative Suite.

## Secretary: Design and Animation Club Jun'23 - Mar'24

• Organized multiple online and offline design competitions, marathons, workshops and fun events like Treasure Hunt.

#### EXTRACURRICULAR

- Mentored 20+ mentees in Creating VR World using Blender, project offered by DesCon society, IITK.
- Organised multiple Archery workshops & Competitions as Archery Society secretary with 100+ participants.

### Relevant Courses

\*ongoing

Process Control & Dynamics Chemical Reaction Engineering

- Chem. Process Syn. & Des.
- Manuf. Energy Systems\*
- Differential Equations

- Thermodynamics
- Capstone Project\* Linear Algebra