



## Hardik Kumar

B.Tech. and M.Tech. (Dual Degree)  
Chemical Engineering Department  
Indian Institute Of Technology, Delhi

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### EDUCATION

- **Indian Institute of Technology, Delhi, India** 2022-2027  
*Chemical Engineering, B.Tech. and M.Tech. (Dual Degree)* CGPA: 7.8
- **Spring Dale College, U.P., India** 2022  
*Indian Certificate of Secondary Education, ICSE* Percentage: 96.2 %

### SCHOLASTIC ACHIEVEMENTS

- Qualified the **JEE Advanced Examination (2022)** and got placed in the **top 0.2% of the 0.2 million** total exam-takers. **Secured All India Rank of 400** in WBJEE (West Bengal Joint Entrance Examination 2022) out of 0.2 million candidates. **Qualified VITEEE** with a 2000 AIR. Qualified the **KVPY** (Kishore Vaigyanik Protsahan Yojana (SA Stream)).

### EXPERIENCE

- **Internship** August, 2023  
*Web Development* AcmeGrade Pvt. Ltd.
  - Engaged in a rigorous web development internship at AcmeGrade Pvt Ltd, **involving focused training sessions and practical project work.** Collaborated with mentors and fellow interns on real-world web projects, applying expertise in **HTML, CSS, JavaScript, and responsive design.** Conducted code reviews, provided constructive feedback, and utilized version control systems. Demonstrated adaptability and teamwork, leading to successful project outcomes. **Recognized for dedication, receiving strong mentor recommendations.** This experience enhanced my technical skills, problem-solving abilities, and collaborative mindset in diverse team environments
- **Research Project** June-July, 2023  
*Volunteer* IIT Delhi
  - Volunteered for a research project at the **intersection of chemistry and energy**, investigating sustainable energy solutions. Collaborated on experiments, literature reviews, and data analysis, focusing on renewable energy sources, catalysts, and materials. Contributed to the team's understanding of chemical processes in energy generation and storage. **Enhanced research skills and analytical abilities through hands-on experiments and data interpretation.** Developed a passion for addressing energy challenges and gained valuable insights into innovative technologies. This experience deepened my expertise in sustainable energy and strengthened **my commitment to scientific exploration and innovation.**

### PERSONAL PROJECTS

- **Web Development** July, 2023  
*Created my own personal website*
  - Developed and manage my **personal website using HTML, CSS, JavaScript, and SQL**, showcasing my education, skills, and CV. Through this project, I honed my proficiency in web development and content management. By designing and maintaining my website, I improved **my online visibility, creating a professional online presence.** This experience not only enhanced my technical skills in various web technologies but also demonstrated my proactive approach to career development, **enabling me to effectively present my qualifications and achievements to potential employers.**
- **Social Science Term Paper** Prof. Sanil V, Sept, 2023  
*Research paper on the topic Migrant crisis in Europe*
  - Dedicatedly researched and authored a comprehensive paper on the **European migrant crisis, demonstrating a deep understanding of the humanitarian challenges faced by displaced individuals.** Engaged actively in initiatives offering aid, support, and advocacy during the crisis, showcasing my commitment to social causes and global issues. This experience underscores my empathy, **research abilities**, and proactive involvement in addressing pressing societal challenges.
- **Research Paper** Prof. Jayati Sarkar, Sept, 2023  
*Course Term Paper under our Course Professor*
  - Numerical methods in spontaneous combustion with the help of **MATLAB- application of the boundary conditions to get a unique solution** and main area of concern is the numerical method using MATLAB to solve the problem easily and in an understandable way. Focused on simplifying complex problems, I emphasized clarity and **comprehensibility in utilizing MATLAB.** This gave me a kick start to my Research orientated career. I got to know many things to know from this.

## •Analog Smart Vehicle Indicator System

Prof. Rakesh Palani , Jan, 2023

*Analog Smart Vehicle Indicator System: Enhancing Road Safety Through Innovative Circuitry*

- In this project, I developed an analog circuit using components like **capacitors, resistors, 555 Timer IC, LEDs, and diodes to create a smart vehicle indicator system**. This analog circuit accurately indicates the turning direction of a vehicle, contributing significantly to road safety. By employing analog technology, I focused on enhancing the precision and reliability of vehicular signaling, ensuring a clear and **effective communication channel** for other drivers and pedestrians. This research project showcases my expertise in analog circuit design, innovation, and commitment to advancing road safety through cutting-edge technology.

## TECHNICAL SKILLS AND INTERESTS

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**Languages:**C, C++, Python, JS, Java, JavaScript.

**Developer Tools:**Autodesk Inventor, Solidworks, Matlab, Ansys, Canva.

**Soft Skills:** Management, communication

**Coursework:** Chemical Engineering

**Areas of Interest:** Research under chemical engineering

## POSITIONS OF RESPONSIBILITY

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•**Position:** Executive in Chemical Engineering Society, IITD.

•**Position:** Junior Engineer in Axlr8r Formula Racing, IITD.