

Kaushik

Junior Undergraduate
Majors in Chemical Engineering
Minors in Computer Science and Engineering
Indian Institute of Technology, Gandhinagar

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ACADEMIC DETAILS

Degree	Specialization	Institute	Year	CGPA/%
B.Tech.	Chemical Engineering	Indian Institute of Technology, Gandhinagar	2022–Present	7.09
Class XII	Physics, Chemistry, Maths	DAV Public School, Delhi	2020–2021	81%
Class X		DAV Public School, Delhi	2018–2019	93.4%

INTERNSHIP

- **Software Developer Intern, Aubha Photonics Pvt. Ltd.** [Certificate](#) [May–Jun 2025]
 - Designed and deployed a Python/OpenCV app for handheld spectrometer data acquisition, enabling real-time spectrum recording with image capture for 100+ samples.
 - Engineered a drift correction algorithm, improving measurement precision by 15% ensuring robust calibration and reliable spectrum visualization.

PROJECTS

- **AI-Powered Resume Builder (LaTeX Automation)** [Aug–Oct 2025]
Development | [Project Link](#)
 - Designed and developed a resume generator that automates LaTeX formatting with AI support, helping students and professionals create professional, ATS-friendly resumes with ease.
 - Integrated Python for section customization and content optimization, reducing creation time for users.
 - Delivered a scalable, open-source tool that simplifies resume creation, improves formatting consistency, and enhances usability.
- **Peer-to-Peer & Creator Payment Platform** [Aug 2025–Ongoing]
Full-Stack Development | [Project Link](#)
 - Developed a secure, real-time P2P payment platform for sending money to friends, family, or creators, supporting tipping, donations, and group payments.
 - Implemented React.js, Next.js + Express, MongoDB, integrating Razorpay APIs, WebSockets, and JWT/AES for security and real-time updates.
 - Delivered a scalable website featuring transaction history, social feed, group splits, and creator analytics, enhancing usability and engagement.
- **Human Activity Recognition (HAR)** [Aug–Sep 2024]
Advisor: Prof. Nipun Batra | *ML* | [Project Link](#)
 - Executed a comprehensive Human Activity Recognition (HAR) project involving the preprocessing of accelerometer data and Exploratory Data Analysis techniques to enhance model accuracy / insights.
 - Employed Python libraries such as Scikit-Learn for training decision tree models, TSFEL for extracting features from time-series data, and PCA for dimensionality reduction.
 - Gained insights into model performance and feature importance, showcasing data preprocessing, feature extraction, and dimensionality reduction. This enhanced accuracy of the HAR models.
- **Classic Games Collection (C++)** [Sep–Nov 2023]
Advisor: Prof. Balagopal Komarath | *DSA* | [Project Link](#)
 - Developed classic games such as a Sudoku solver, Tic-Tac-Toe using C++.
 - Utilized a backtracking algorithm to efficiently solve Sudoku puzzles and created gameplay for Tic-Tac-Toe.

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript
- **Web/Full-Stack:** Next.js, React, Express, HTML/CSS
- **Databases/Cloud:** MongoDB, PostgreSQL, Vercel
- **AI/ML:** Scikit-learn, TensorFlow, NumPy, Pandas, OpenCV
- **Tools:** Git/GitHub, SQL, Matplotlib, Jupyter, MATLAB/Simulink

POSITIONS OF RESPONSIBILITY

- **Coordinator, Hallabol IITGN** [Feb 2024]
 - Organized footvolley tournament for 100+ participants during sports fest, managing logistics and scoring for seamless execution.
- **Coordinator, UDAAN IITGN** [Apr 2024]
 - Organized an event for the passing out batch of 2024, managing all logistics and team coordination to ensure a seamless experience. Coordinated venue setup and scheduling, resulting in a well-received event.