

Aditya Vikram Jain

Junior Undergraduate
Department of Chemical Engineering

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Academic Qualifications

| Year | Degree/Certificate | Institute | CPI/% |
|----------------|--------------------|---|--------|
| 2021 - Present | B.Tech | Indian Institute of Technology Kanpur | 6.0/10 |
| 2021 | CBSE(XII) | MDS Public School, Udaipur | 96% |
| 2019 | CBSE(X) | St. Paul's Senior Secondary School, Udaipur | 95.4% |

Scholastic Achievements

- Secured **All India Rank 3897** in **JEE Advanced 2021** among 1.5 lakh candidates who were already shortlisted
- Secured **All India Rank 5625** in **JEE Mains 2021** among the 12 lakh candidates who appeared in the examination
- Qualified **Stage-1 of Kishore Vaigyanik Protasahan Yojana (KVPY) 2020** among 50 thousand candidates.
- Recognized as **National Talent Search Examination (NTSE) Scholar 2018-19** among 10 lakh candidates

Key Projects

- Introduction to Data Science in Chemical Engineering** (Chemineers Society - IIT Kanpur) (Dec'22-Feb'23)
 - Attained a proficiency in **Python**, using the libraries of **NumPy, Pandas, Matplotlib**
 - Developed and implemented custom **Linear Regression models** using **Sklearn library** to predict the specific volume of saturated vapor based on pressure and compared the results with the help of scratch
 - Created an **Artificial Neural Network** from scratch using dataset of **9568 data points** and obtained **88% accuracy**
- Multipurpose Flour Mixer** (Mentor: Prof. Arvind Kumar, Mechanical Engineering, IIT Kanpur) (Aug'22-Nov'22)
 - Collaborated with a team of **8 members** under the Course **TA202A (Manufacturing Processes)**
 - Learned and worked on **Autodesk Fusion 360** and **Inventor Professional** to make a 3D design of our project model
 - Fabricated and used worm and worm wheel mechanism to construct a working model of a Flour mixer system
 - Implemented various manufacturing processes like **milling, drilling, lathe, cutting, 3-D printing, CNC**
- Virtual Company Project** (Mentor: Prof. R. Ragipani, Chemical Engineering, IIT Kanpur) (Jan'23-Apr'23)
 - Coordinated a team of **14 members** under the Course **CHE261A (Chemical Process Industries)**
 - Led virtual company in **market analysis**, identifying **high-value chemicals** based on profitability and raw material availability. Conducted a thorough screening of 3 chemicals, considered reports from chemicals.gov.in
 - Coordinated with **R&D and Technical Services team** to design a **scaled-up process**
 - Facilitated material balance, estimated approximate capital cost, and analyzed the environmental safety measures

Technical Skills

- Programming Languages and Libraries:** C, C++, Python, MATLAB, Numpy, Pandas, Matplotlib, Sklearn
- Tools and Utilities:** Jupyter Notebook, AutoCAD, Autodesk Fusion 360, MS Excel, L^AT_EX

Positions of Responsibility

- Academic Mentor, Counselling Service Team** (Sep'22-Present)
 - Guided and mentored **freshmen** students in acclimatizing to the competitive environment of the Institute
 - Conducted **AM sessions** to help solve freshmen's academic doubts in **ELC courses** over 2 semesters
 - Taught **10+ students** in **one-to-one mentoring sessions** to provide academic support for their first year of IITK
- Secretary, Dramatics Club, Media and Cultural Council** (Aug'22-May'23)
 - Mentored multiple first-year students in acclimatizing to the environment and learning drama skills in the Institute
 - Coordinated and helped the club organize various events like **Summer Play and Workshop, PG Orientation**
 - Guided a group of 20+ students to perform in the **Freshers' Night, Freshers' Orientation and Dram Eve**
 - Participated in various cultural festivals outside of IIT Kanpur like **Thomso'22** and **Inter IIT Cult Meet 5.0**
- Senior Executive, Hospitality and Transport, Techkriti'23** (Sep'22-March'23)
 - Coordinated with the team to get **2200+ participants** with **10000+ registrations** from different colleges across India
 - Responsible for organizing online competitions in dance, dramatics, music, literature, films, and photography
 - Collaborated with **50+ students** from colleges across the country to through **CA Program** of Techkriti
 - Acted as a bridge between participants and the Tech Heads, Techkriti, and facilitated a smooth flow of information

Relevant Courses

| | |
|---|--|
| Fundamentals of Computing(ESC101A) | Computational Methods in Engineering(ESO208A) |
| Chemical Process Industries(CHE261A) | Linear Algebra and Differential Equations(MTH102A) |
| Chemical Engineering Thermodynamics(CHE221) | Introduction to Electronics(ESC201A) |

Extra-Curricular Activities

- Worked with a team of organisers in conducting **Fresher's Orientation** and handled more than **1200 first-year students**
- Participated in Street Play and represented IIT Kanpur in **Thomso'22** - the Cultural Fest of IIT Roorkee
- Secured **5th Position in Inter-IIT Cultural Meet 5.0** held in **IIT Madras** in Street play out of **20+ IITs**
- Secured **2nd Position in Antaragni'23** - the Cultural Fest of IIT Kanpur in Street Play
- Represented school as a key player in the **District-level Basketball Tournament** held in Udaipur, Rajasthan
- Secured **2nd Position in Debate Competition (Paricharcha)** hosted at **IIM Udaipur** under Audacity'18