

Achyut Kumar Verma

Pre Final Year Undergraduate
Department of Chemical Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
July'17 - Present	B.Tech	Indian Institute of Technology, Kanpur	7.2/10
2016	JAC(XII)	Mrs. KMPM Inter College, Jamshedpur	82.4%
2014	JAC(X)	Saraswati Vidya Mandir, Jamshedpur	85.6%

Scholastic Achievements

- Ranked in National Top 5% (among 1.6 lakh shortlisted candidates) in IIT-JEE Advanced 2017.
- Ranked in National Top 2% (among 1.2 million candidates) in JEE Mains 2017.

Key Projects

- **Heat Exchanger Design** (May'19- Jul'19)
SimuTech Club, IIT Kanpur
– Simulated the different type of Heat Exchanger using **MATLAB** software.
– Optimized the heat exchange output while minimizing the overall cost.
– Analysed all the results for both parallel and counter flow heat exchanger.
- **River Surface Cleaner** (Aug'18- Nov'18)
Supervisor: Prof. Arvind Kumar, Dept. of Mechanical Engineering
– Designed a water surface cleaning, floating machine in Autodesk Fusion 360.
– Implemented the design using various manufacturing processes such as Milling, Lathing, Drilling, Welding, etc. to make a working model (in a team of 5). *IIT Kanpur*
- **Flying Bird Model** (Jan'19- Apr'19)
Supervisor: Prof. Shobit Omar, Dept. of Material Science
– Designed a flying bird model in Autodesk Fusion 360.
– Implemented the design using various manufacturing processes such as Casting, Welding, Brazing, etc. to make a working model (in a team of 5). *IIT Kanpur*

Technical Skills

- **Languages:** C, C++, HTML, CSS, Python(basic)
- **Software and Utilities:** Git, Visual Studio, L^AT_EX, MATLAB, OCTAVE, Jupyter Notebook

Positions of Responsibility

- **Company Coordinator** (Aug'18-Apr'19)
Student Placement Office
– Coordinated with a 4-tier students placement team of the campus to ensure a smooth conduct of the company placement procedures.
– Managed logistics of shortlisting tests, interviews for the recruiting process of companies like Tower Research, Microsoft, Flipkart etc. *IIT Kanpur*
- **Student Nominee, Humanities & Social Sciences Department** (Feb'19-Ongoing)
Departmental Under Graduate Committee
– Represented student interests of the academic disciplines of **Economics, Sociology, Psychology, Art**, etc. in the committee. *IIT Kanpur*
– Acted as a link between students and administration and also handled problems faced by students in their academic programmes.
- **Academic Mentor** (May'18-Apr'19)
Counselling Service Team
– Mentored a group of freshmen in the compulsory **Chemistry** course, and taught in classes at institute and hostel levels. *IIT Kanpur*

Relevant Courses

Maths and Computing	Chemical Engineering
Data Mining and Knowledge Discovery	Fluid Mechanics and Rate Processes
Linear algebra and Differential Equations	Thermodynamics
Probability and Statistics	Chemical Process Industries
Machine Learning, Coursera, Stanford university*	Heat Transfer*
Data Structure and Algorithms*	Mass Transfer* <i>*Ongoing</i>

Extra-Curricular Activities

- Achieved 9th rank in a group of 350 boys in Sixth India Open Yoga Championship, 2010.
- Successfully organised the Fifth International Day of Yoga, 2019 (in a team of 20) at IIT Kanpur.
- Enthusiast in Boxing, Swimming, Skating, Hockey, Volleyball & Yoga.