



**Samyak Vishal Jain**  
**Chemical Engineering**  
**Indian Institute of Technology Bombay**

**190010060**  
**B.Tech.**  
**Gender: Male**  
**DOB: 11/7/2001**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	
Intermediate	CBSE	Sarvodaya Senior Sec. School, Jagpura	2019	95.80%
Matriculation	CBSE	St. Joseph's Convent School, Jalgaon	2017	10

Pursuing a **minor** in **Management** at Shailesh J. Mehta School of Management, IIT Bombay *(Present)*

## SCHOLASTIC ACHIEVEMENTS

- Awarded a **branch-change** to the Department of Chemical Engineering for academic proficiency *(2020)*
- Secured **99.77 percentile** out of **1 million** candidates in the Joint Entrance Exam (JEE) Main *(2019)*
- Amongst top **1.3%** out of **0.16 million** candidates in the Joint Entrance Exam (JEE) Advanced *(2019)*
- Achieved Maharashtra State **Rank 236** in prestigious **NTSE** Stage 1 out of **75,000+** students *(2017)*

## POSITION OF RESPONSIBILITY

**Manager | Events and Fellowships** | Abhyuday, IIT Bombay *(May'21 - Present)*

*Social body of IIT Bombay with vision to channelize and sensitize the youth towards their social responsibilities*

- Leading a 2-tier team of **100+** volunteers for execution of **50+** events & campaigns, **7** competitions
- Executed a month long campaign **Sangharsh** along with **UNICEF India** reaching **2M+** people
- Organised an event **Youth and the Pandemic** to address the mental health issues faced by the youth
- Spearheaded ideation and execution of Coordinator's All Team Meet targeting **1000+** UG freshers
- Structured **Profectus**; brought **30+** NGOs on-board with **100% YoY** growth in internships provided
- Formulating a roadmap to invest **INR 0.1M** to address the diverse emerging social issues in rural India
- Pioneering bi-weekly Mental Health **podcasts** in association with Student Wellness Centre, IIT Bombay

## MENTORING EXPERIENCE

**Department Mentor** | Department Academic Mentorship Program, IIT Bombay *(May'21 - Present)*

*Selected amongst 32 mentors out of 80 applicants based on versatility, academic ethics and positive peer review*

- Responsible for mentoring **6 sophomores** and ensuring their smooth transition into the second year
- Contributed exhaustive course reviews for **4 courses** on the official Chemical D-AMP website

**Course Mentor** | Energy Club, IIT Bombay *(Jul'20)*

*Crash Course in Energy | 1000+ nationwide registrations | 400+ active participants including PhD and MSc holders*

- Personally mentored and motivated **32 participants** for 12 days for successful course completion
- Key contributor in creating Nuclear Energy **Module Quiz** and conducted discussions related to energy

**Online Tutor** | Kunduz Tutor Application *(Dec'19 - Aug'20)*

*Ed-Tech Venture | Mobile platform | Questions answered via quick photos | Tutor network and AI technology*

- Cleared **130+** doubts in Physics, Chemistry and Mathematics to help **JEE aspirants** across India
- Received answer satisfaction rate of **82%** and average feedback of **4.14** out of **5**

## INTERNSHIP EXPERIENCE

**Sahu Technologies** | Research and Development Internship *(Dec'20 - Jan'21)*

*Awarded Certificate of Appreciation and Subject Expert Certificate*

- Conducted extensive market research in **EdTech** sector including attributes like tutorials & internships
- Prepared **Research and Development** strategy and implementation plan to build an EdTech website

## KEY PROJECTS

**Project Associate** | Education and Skill Training Department | Enactus IIT Bombay *(Oct'20 - Apr'21)*

*A team of 29 students contributing to social change through entrepreneurial action*

- Researched about several problems faced by underprivileged students in accessing **quality education**
- Interviewed various stakeholders in the process including **teachers** and **NGOs**

- Researched and analysed evolution of advertising strategies adopted by **Amul India** for over **50** years
- Compared Amul's advertising investments of 0.8% of turnover to 8-15% of turnover of its competitors
- Identified possible reasons for this - **umbrella branding** and the right advertisement at the right time

**Polymer Thermodynamics** | Research Project (May'21 - Present)

- Analysing **10+** datasets for different **chemistries** of **PBPU** (Polybutadiene Polyurethane) elastomer
- Implementing understanding of elastomer behaviour to quantitatively and rationally account for human and systematic errors in the **stress-elongation** data; particularly in the **initial deformation regime**
- Using python libraries like **numpy**, **pandas** and **matplotlib** for data cleaning and visualization
- Planning to implement **LOWESS** (Locally Weighted Scatterplot Smoothing) on the datasets

**Optimizing Paper Cups on MATLAB** | Course Project | Heat Transfer (Spring'21)

- Examined **1D spatio temporal** variation of temperature of the paper cup containing a hot beverage
- Investigated **5** materials with different **thermal diffusivities** for **3** designs of paper cups
- Calculated the **time** required for heat to **diffuse** through the paper cup for **18** combinations
- Found out the best possible combination - multilayer design of **PET**, **PLA** and **Polystyrene**

**Neuromarketing and Consumer Behaviour** | Course Project | Consumer Psychology (Spring'21)

- Scrutinized **9 research papers** for techniques, benefits and limitations of neuromarketing
- Developed preliminary **hypothesis** that neuromarketing research methods are an additional way to understand consumer behaviour in the market despite of the **neuroethics** in neuromarketing

## MOOC CERTIFICATIONS AND BOOTCAMPS

- Successfully completed **Python for Statistical Analysis** online course on Udemy (Jun'20)
- Awarded a certificate of merit in **Finance Bootcamp** in Learner's Space, IIT Bombay. Analysed passenger vehicle industry (Cars) from the perspective of **Porter's 5 forces model** (May'20)
- Honored with certificate of merit in **Fundamentals of Energy** course in Learner's Space, IIT Bombay. Learnt about sources, storage, distribution, conservation of energy and shift to renewables (Jul'20)

## COURSES UNDERTAKEN

<b>Management</b>	Accounting and Finance*, Operations Management, Marketing Management
<b>HSS</b>	Economics, Consumer Psychology, Sociology
<b>Chemical Engineering</b>	Mass Transfer*, Solid Mechanics*, Chemical Reaction Engineering*, Process Fluid Mechanics, Thermodynamics I & II, Heat Transfer
<b>Computer Science</b>	Computer Programming and Utilization
<b>Mathematics</b>	Calculus, Linear Algebra, Differential Equations
<b>Others</b>	Data Analysis, Numerical Analysis, Computational Methods Lab

(\*Courses to be completed by Dec'21)

## EXTRA-CURRICULARS

<i>Social</i>	<ul style="list-style-type: none"> <li>• <b>NGO Volunteer</b>   NSS, IIT Bombay (Autumn'20) <ul style="list-style-type: none"> <li>– Conducted <b>regular online teaching</b> for NGO Vidya students</li> <li>– Taught <b>underprivileged</b> students of classes 7th, 8th and 12th subjects like Maths and Science</li> <li>– Responsible for preparing content, question banks and doubt clarification of <b>10+</b> students</li> </ul> </li> </ul>
<i>Sports</i>	<ul style="list-style-type: none"> <li>• Completed IIT Bombay Virtual Run 2020 under <b>Fit India Movement</b> (Sep'20)</li> <li>• Finished Aavhan, IIT Bombay's <b>Virtual Run</b> under <b>3 km</b> category (Jun'20)</li> <li>• Completed one year of training in <b>Yoga</b> under National Sports Organisation(NSO) (2019-20)</li> </ul>
<i>Technical</i>	<ul style="list-style-type: none"> <li>• <b>Programming Languages:</b> Python, MATLAB, R, C++</li> <li>• <b>Softwares &amp; Modules:</b> Jupyter Notebook, Numpy, Pandas, Matplotlib, L<sup>A</sup>T<sub>E</sub>X</li> </ul>
<i>Workshops</i>	<ul style="list-style-type: none"> <li>• Successfully completed <b>Trading</b> workshop as part of SARC Alumination (Dec'20)</li> <li>• Participated in <b>OpenModelica</b> workshop organized by <b>Azeotropy</b>, IIT Bombay (Mar'21)</li> </ul>
<i>Others</i>	<ul style="list-style-type: none"> <li>• Contributed an <b>article</b> named <b>Freshie Lookback</b> for the annual IIT Bombay Freshie Newsletter, published by the student journalism body <b>Insight</b>, IIT Bombay (Dec'20)</li> </ul>