



Vaishnavi
Chemical Engineering
Indian Institute of Technology Bombay

22B0398
B.Tech.
Gender: Female
DOB: 02/07/2004

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2026	

Pursuing a **Management Minor** degree from the **Shailesh J. Mehta School of Management (SJMSoM)**, IIT Bombay

PROFESSIONAL EXPERIENCE

Redseer Strategy Consultants | Business Analyst Intern [Jun'24-Jul'24]

Assisted in documenting **DRHP** and **Industry Report** for e-commerce logistics **Ecom Express**, delivering market analysis

- Projected a **25%** annual growth rate for **B2C express shipments** through strategic insights in e-commerce logistics
- Performed **Competitive Benchmarking** on top **6** players by **10+ qualitative & quantitative** metrics like EBITDA
- Proposed improvements by analyzing **5+ key trends** and **3+ challenges** to E-commerce logistics landscape in India

Kellogg School of Management | Project Intern [Jun'24-Jul'24]

Received **Letter of Recommendation** for showcasing exemplary **analytical** and **research** skills, by Prof. Ameet Morjaria

- Documented **3000+ global conservation** and **protected environmental** sites and analyzed changes over regimes
- Ensured **85%** data accuracy by verifying designation years of **2000+ GBR Parks**, Great Britain from Protected Planet

Indian Oil Corporation Ltd. | Industrial Trainee [May'24-Jun'24]

Gained hands-on experience with **5+ key refinery unit operations** at mother and secondary units of Barauni Refinery, IOCL

- Contributed to **20%** reduction in incidents and ensuring regulatory compliance by participating in the **safety drills**
- Achieved **10%** reduction in **operational** costs by conducting meta-analysis, **process optimization & automation**
- Prepared **technical reports** on the unit **refinery operations**, **5 department overviews** & **key performing indices**

POSITIONS OF RESPONSIBILITY

Events Head | Azeotropy, IIT Bombay [Jul'24-Present]

Part of the **14-membered core team** of Asia's largest Intercollegiate Chemical Engineering Symposium | Budget: **INR 2 N+**

- Heading **Events** division, drawing **100+** corporates, **350+** colleges and **11K+** footfall from all over India | **10+** events
- Piloting deals with **8** professional software licensors organizing **18** workshops (**125% YoY** increase in engagement)
- Pioneering deals with eminent **faculties** from top universities and industry **professionals** for **Chemvision** and **SIM**
- Restructuring existing events and ideating **5+** events including **Chem-e-Crypt** targeting **20% YoY** growth in crowd

Activity Associate | Educational Outreach, NSS, IIT Bombay [Jul'23-Mar'24]

One of the largest social student volunteer organizations in institute | Volunteers: **500+** | NGOs: **15+** | News Highlight: **30+**

- Spearheaded **Vidya & HTB**, NGO educating **200+ underprivileged** students to focus on their elementary education
- Led **50+** dedicated volunteers to effectively coordinate **1000+** hours of community service across 2 initiatives of EO

Business Associate | Exofly, IIT Bombay [Sep'23-Dec'23]

A team of **40+ enthusiasts** working to develop a personal flying device capable of covering **20+ miles** carrying single man

- Analyzed **30+** companies to generate sponsorships and fundings for participation in the **SUAS Competition** of USA
- Contributed to project management & content creation for social media platforms, achieving **25%** increase in reach

RESEARCH EXPERIENCE

Titania Nanotubes Growth and Biomedical Applications | Summer UG Research Project [Jun'24-Present]

Selected among **2** out of **20+** applicants after a rigorous procedure of assignment & interview with Professor Rakesh Mote

- Executed research on **TiO2 nanotube arrays** synthesis via **electrochemical anodization** and modification methods
- Pioneering anodization parameters on **TiO2 array** with potential applications in **photocatalytic** hydrogen generation

KEY PROJECTS

Accessing Performance and ROI of VC Exit Strategies | Finance Club, IIT Bombay [Jun'24-Present]

- Analyzed market potential & product scalability, leading to a strategic sale of Toddle, maximizing returns by **250%**
- Executed **market analysis**, leading to **3one4's** exit and a **30%** increase in portfolio, while exploring exit strategies

Cycle Time Reduction via MRP Based Production Planning | Course Project | Prof. Rahul Patil [Apr'24]

- Conducted literature review on **production planning** techniques, focusing on strategies for **cycle time** reduction
- Optimized production schedules & reduced **WIP** costs through **3+** strategies like APS and Bottleneck Management
- Evaluated methods like **LETSA** approach & **capacity scaling** approach for estimating lead times & lead time offsets

Digitalization of Experimental Procedure | Course Project | Prof. Sanjay Mahajani [Apr'24-May'24]

- Developed digital system for real-time pH monitoring, data acquisition in **ester hydrolysis**, enabling remote access
- Incorporated **Arduino** coding to calculate **reaction kinetics** & investigate effects of **temperature & concentration**

EXTRA-CURRICULAR ACTIVITIES

Mentorship	<ul style="list-style-type: none">Guided 200+ students as Teaching Assistant & awarded LOR by professor for exemplary workMentored 6+ students for Business Model Pitching Competition, Enb Buzz & 5+ students for SOS
Social	<ul style="list-style-type: none">Organized visit to Team Vision, an NGO catering to the needs of 100+ visually impaired peopleContributed to the Versova Beach Cleanup, by collecting 350+ tons of waste, led by Abhyuday
Others	<ul style="list-style-type: none">Stood 1st in the Fresher's Tug of War Part of Udghosh Kabaddi camp Awarded by NTPC, GoIAnchored MI & NSS Fresher's Orientation and hosted Mantra, Battle of Bands 1K+ audience