



Pratiksha Pimpalshende
Chemical Engineering
Indian Institute of Technology Bombay

190020083
B.Tech.
Gender: Female
DOB: 02-10-2001

| Examination | University | Institute | Year | CPI / % |
|-------------|------------|------------|------|---------|
| Graduation | IIT Bombay | IIT Bombay | 2023 | |

Pursuing a Minor in **Management** from SJMSOM, IIT Bombay

(Minor CPI: 9.00)

Scholastic Achievements

- Achieved a percentile of **99.22** in Joint Entrance Exam Main among **0.9 million+** aspirants ('19)
- Secured **99.90** percentile in MHTCET examination from a pool of **0.4 million** candidates ('19)
- Felicitated by Plant Head **Mahindra & Mahindra, Nagpur** for scoring **99%** marks in SSC ('17)

Key Projects

Adsorption & Reaction Modeling for contaminant removal (Jun'21 - Present)

- Studying **adsorption** and **reaction** of contaminants in water over **nanoparticle impregnated fibers**
- Developing regression model in **MATLAB** to calculate the **rate constant** for the reaction of contaminants over nanoparticles and the amount of contaminant adsorbed at **equilibrium** in a **batch process**

Temperature regulation inside Ship Engine Room | Course Project (Jan'21 - May'21)

- Designed a **heat exchanger** system to control **temperature** and **humidity** inside the ship engine room
- Achieved a temperature reduction of **10°Celsius** with constraints of space, coolant availability, and fouling

Glacier Mapping | Course Project | Centre of Studies in Resources Engineering (Feb'21)

- Studied the important characteristics of bands in **LANDSAT** data for cryospheric applications using **QGIS**
- Generated **NDSI**, **true** and **false** colour images for mapping glacial features, snow-cloud differentiation

Nanoengineered Superhydrophobic Surface | Literature Review | Course Project (Nov'20)

- Presented a detailed analysis of a research paper on **liquid slip** over designed superhydrophobic surface
- Studied the experimental findings and design of surface structures for **slip length** and **drag reduction**

Professional Experience

Inside Sales Intern | Entri Software Pvt. Ltd. (Jun'21 - Present)

EdTech startup providing courses for GATE, government services and job preparation in regional languages

- Restructuring the **Campus Ambassador** Program by introducing **college collaboration** methodologies
- Critically analyzed the company website for new features like course reviews, results, launch of **web app**
- Liaising with **20+** colleges in the **Delhi** region to expand the services in **GATE** exam preparation

Leadership Roles

Competitions Manager | AZeotropy'22, IIT Bombay (Jun'21 - Present)

India's largest intercollegiate Chemical Engineering symposium with 11K+ footfall from 300+ colleges

- One of the **15 core** members of a **2 tier** team responsible for conceptualizing and executing the symposium
- Devising a distinctive quizzing format for CoP, with a participation of **3000+** students over **30+** centers
- Revamping the format of **4** existing competitions, with a target of **8-9% y-o-y** increase in participation
- Diversifying** the competitions by augmenting them with topics like data analysis, disaster investigation

Coordinator | Alumni Student Mentorship Programme | Dean ACR (Jul'20 - May'21)

Part of a 3-tier institute body responsible for fostering relations between 50k+ alumni and students

- Consolidated a mentor pool of **200+** alumni across **10+** sectors like management, core, IT, analytics
- Coordinated the mentor allocation process, proficiently mapping **200+** mentors to **400+** students
- Structured and executed **10+** sessions of **4** events aiming to increase the student-alumni interaction

Technical Skills

- Programming:** Python, MATLAB, \LaTeX
- Softwares:** AutoCAD, SolidWorks, ANSYS, Adobe- Illustrator, Photoshop

Extracurricular Activities

- Skilled in **Kathak**, certified by Akhil Bhartiya Gandharva Mahavidyalaya Mandal, Mumbai
- Bagged **3rd position** in wall painting general championship among **18** participating hostel teams