

Pratiksha Pimpalshende Chemical Engineering Indian Institute of Technology Bombay 190020083 B.Tech.

Gender: Female DOB: 10/3/2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	
Intermediate	MSBSHSE	Dr. Ambedkar College Deekshabhoomi,	2019	92.92%
		Nagpur		
Matriculation	CBSE	School Of Scholars Wanadongri, Nagpur	2017	10

Pursuing a Minor in Management from SJMSOM, IIT Bombay

Minor CPI: 9.00

Scholastic Achievements

- Achieved a percentile of **99.22** in the Joint Entrance Exam Main among **0.9 million+** aspirants ('19)
- Ranked amongst the top 5% in Joint Entrance Exam Advanced among 0.17 million+ candidates ('19)
- Secured a percentile of **99.90** in MHTCET Examination from a pool of **0.4 million+** candidates ('19)
- Received the certificate of appreciation for exemplary performance in Physics by MSBSHSE (19)
- Felicitated by Plant Head, Mahindra & Mahindra, Nagpur for scoring 99% marks in SSC ('17)
- Awarded Certificate of Merit in state level Maharashtra Talent Search Examination

Professional Experience _

Inside Sales Intern | Entri Software Pvt. Ltd.

(Jun'21 - Present)

('15)

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

(Jun'21 - Present)

 $India's \ largest \ intercollegiate \ Chemical \ Engineering \ symposium \ with \ {\bf 11K} + \ footfall \ from \ {\bf 300} + \ colleges$

- 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

(Jun'20 - May'21

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

- Coordinated the mentor allocation process, proficiently mapping 200+ mentors to 350+ students
- Structured and executed 10+ sessions of 4 events, aiming to increase the student-alumni interaction

Key Projects

Adsorption & Reaction Modeling for contaminant removal

(Iun'91 - 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)

Guide: Prof. P Sunthar, Prof Venkat Gundabala, Chemical Engineering, IITB

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

Glacier Mapping | Centre of Studies in Resources Engineering, IITB

(Feb'21)

Guide: Prof. Gulab Singh | Course Project: Remote Sensing and GIS applications to Cryosphere

- 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) Guide: Prof. Guruswamy Kumarswamy, Chemical Engineering, IITB

- 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

Hyperloop IITB | Student Technical Project

(Feb'20 - Jun'21)

- One of the 50 members of a student team, working towards designing a prototype Hyperloop pod
- Worked with the aerodynamics subsystem to develop the outer aerodynamic structure of the pod
- Constructed the pod from given coordinates and developed the velocity profile using **2D** and **3D** analysis

XLR8 | Electronics and Robotics Club, IIT Bombay

(Aug'19)

- Worked in a team of 4 to construct a Bluetooth controlled obstacle crossing bot from scratch
- Designed the electrical circuit using IC7805, ICL293D and, AT Tiny on a perforated circuit board
- Implemented differential controlling mechanism to reduce turning radius for better maneuverability

Technical Skills _____

Programming	Python, MATLAB, IATEX
Software Packages	AutoCAD, SolidWorks, ANSYS, Adobe Photoshop, Adobe Illustrator

Extracurricular Activities _____

- Bagged 3rd position in wall painting general championship among 18 participating hostel teams
- Skilled in Kathak, certified by Akhil Bhartiya Gandharva Mahavidyalaya Mandal, Mumbai
- Completed training in Yoga, spanning over 2 semesters under the National Sports Organization
- Oversaw execution of international summit on The Industry 4.0 during TechFest, IIT Bombay
- Hosted a Acapella competition Conchord during 49th Edition of Mood Indigo, IIT Bombay
- Participated as Student Parliamentarian in Times School Parliament on No Detention Policy
- Awarded Certificate of Appreciation for **best English essay** in national level essay and painting competition organized by **Ministry of Petroleum and Natural Gas, Govt. of India**

Courses Undertaken _____

Chemical Engineering	Transport Phenomena, Thermodynamics (I&II), Heat Transfer, Fluid Mechanics, Chemical Reaction Engineering*, Solid Mechanics*, Mass Transfer*, Chemical Engineering Lab (I & II)*, Advanced Transport Phenomena*	
Mathematics	Calculus, Linear Algebra, Differential Equations, Computational Methods Lab, Numerical Analysis, Data Analysis	
Minor	Operations Management, Marketing Management*	
Certified	Programming for Everybody, Python Data Structures, Design Bootcamp	
Others	Computer Programming and Utilization, Economics, Psychology, Electrical and Electronic Circuits*, Engineering Graphics and Drawing, Remote Sensing and GIS applications to Cryosphere	

(*to be completed by Nov'21)