

Sharvari Milind Kumbhar Chemical Engineering Indian Institute of Technology Bombay

200020123 B.Tech.

Gender: Female DOB: 11/9/2001

Examination	University	Institute	Year CPI / %
Graduation	IIT Bombay	IIT Bombay	2024

Pursuing a minor degree in the department of Computer Science and Engineering at IIT Bombay SCHOLASTIC ACHIEVEMENTS

Positions of Responsibility _

Editorial Board Member | Insight, Official Student Media Body, IIT Bombay

(Apr'22 - Present)

- Part of a 18 membered team of editors responsible for covering long-standing issues of importance to institute populace
- Interviewed 10+ people including students and admins involved in campus reboot process during Covid-19 Pandemic • Creating content reaching 10k+ students, 650+ faculty members with online readership of 0.4M+ in a team of 38
- Publishing content under Hostel Affairs Vertical in a team of 3; attained reach of 3k+ on hostel issues posts
- Researching on preparatory course policy in IITs; interviewing 30+ faculties and student representatives across IITs
- Worked collaboratively to increase overall engagement by 186% and boost interactions by 343% on 70+ posts

Institute Cultural Convener | Vaani, Indian Languages Club, IIT Bombay

Worked in a team of 6 members reponsible for management of club with an annual budget of INR 0.25 million+

- Conceptualised and executed 40+ events and workshops throughout the year to cater total 15k+ students and faculties
- Spearheaded a team of 10+ organisers in the flagship festival Izhaar with 150+ contestants and 1200+ attendees
- Invited and managed 15+ national/international artists throughout the year with 200% y-o-y increase in outreach
- Handled official blog with 50% y-o-y increase in readership on writings from students of diverse linguistic backgrounds
- · Successfully organised of first-ever Covid-19 Fundraiser course for story writing and raised funds worth INR 15k+
- Boosted social media presence of club by 30% in 3-months by creating content for the series 'Language of the Month'

Internships & Key Projects.

Biochemical Technology Intern | Chr Hansen (India) Pvt. Ltd.

(May'22 - Jun'22)

- Internship aiming to optimize production process of commercially important molecule using computational techniques
- Received Letter of Recommendation from the Head of Pune Tech Centre for sincerity and excellent work ethic
- Performed shake flask study, specific growth curve analysis and Watson Marlow pump calibration with 98% precision
- Developed python programs for optimization of parameters in differential equations that govern production process
- Built a kinetic model trained on a dataset of 2000+ size and obtained curve fitting precision upto 90% for 5 variables
- Improved current large scale production process of the molecule by suggesting optimal feed rate and parameter values

Minimising Car Cabin Temperature | Guide: Prof. P.Sunthar | Course Project (Jan'22 - Apr'22)

Ideated project statement with an 8 membered team aiming to solve an impactful real life transfer problem

- Performed an extensive literature survey to gain insights into pre-existing solutions and possible improvement
- · Obtained differential equation that modelled experimental temperature variation inside car cabin with 92% accuracy
- Suggested solutions and explored the use of Phase Change Materials to reduce the temperature inside car by 10%

Capillary Force and its Applications | Guide: Prof. Guruswamy K. | Course Project

- Presented a critical analysis of research paper 'Capillary force & its application to AFM' through a detailed report

 Pointed out the shortcomings of the approach used in paper and came up with improvements by suggesting remedies
- Reviewed the experimental findings of capillary forces and quantitative interpretation of pull-off forces in paper

Language Detection - NLP | Seasons Of Code | Web and Coding Club

(Mar'21 - Jul'21)

- Developed Machine Learning model to detect language of extracted text achieving 96% training accuracy

 Implemented Logistic Regression and Naive Bayes classifier for text recognition on dataset with 2400+ sentences
- Extracted different languages from images using EasyOCR python library followed by further preprocessing

ACCOLADES & EXTRACURRICULARS _

NCC & Sports	 Successfully completed a year-long training of NCC DRILL and yoga under National Cadet Corps(21') Procured 2nd position in District Level Fencing Competition held by State Government(16') Participated in State Level Fencing Competitions held by Government of Maharashtra(15')
Cultural	 Bagged Gold medal in Creative Speaking organised by Great Minds Competancy Council, Chennai ('17) Secured 3rd position in inter school debate competition held by CBSE Sahodaya School Complex ('17)
Social	 Mentored students from villages for JEE preparation under NGO Vidyoday Muktangan Parivaar ('21) Ran a 15 km marathon for Youth against Drug Addiction campaign at Ichalkaranji, Kolhapur ('20) Valunteered at Vichaeland plactic collection driver collected 201 bears of plactic with 151 people ('20)

- Volunteered at Vishaalgad plastic collection drive; collected 20+ bags of plastic with 15+ people ('20)
- Worked in a team of 4 to design and build RC training aircraft that can do acrobatics & gliding (21) Technical Skills: Python, MATLAB, Microsoft Office, LaTeX, Photoshop, Biolector, 3D Printer, HPLC, Laser cutting