



Dishita Vispute
Chemical Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Female
DOB: 14/6/2001

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

Pursuing a **Minor** degree in **Management** from Shailesh J. Mehta School of Management, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Ranked in the **top 1.28%** percentile in JEE Mains Entrance Examination among over **1.1 M+** candidates ('20)
- Secured **96.16%** percentile in JEE Advanced Entrance Examination among over **0.15 M** candidates ('20)
- Achieved rank **3** in school with a perfect score of **100** in Computer Science in 10th ICSE Board Examination ('17)

KEY PROJECTS

How To Make Water Run Uphill | Course Project | Guide: Prof. Guruswamy Kumaraswamy (Oct '21 - Nov '21)

Analyzed given report to understand the motion of liquid drops induced by surface chemical gradient of a solid substrate

- Studied the effect of **hysteresis** of contact angles on the motion of the droplets caused by the changes in free energy
- Gathered brief knowledge about a modified **Elwing's method** used to produce various **gradients** in the **chemical compositions** and the **surface tension** on the solid surfaces by the utilization of a diffusion-controlled process

Optimising tents for high altitude | Course Project | Guide: Prof. Venkat Gundabala (Feb '22 - Apr '22)

Analysed material and design requirements to build tents to help soldiers survive in harsh conditions at high altitudes

- Concluded on a **structure** for the tent that reduced loss of heat by $\approx 40\%$ more as compared to other structures
- Optimized the **material** by utilizing HDPE, Aerogel for insulation and Aluminium foil laminate as a reflective barrier
- Visualised temperature profiles using **OpenFOAM** and **Paraview** and constructed mesh structures via **Gmsh**

Steady-State one dimensional heat transfer ODE-BVP | Course Project | Guide: Prof. Sarika Mehra (Nov '21)

Optimised the knowledge gained during the course to solve given problem and observe variations in the solution found

- Solved given problem by using **shooting method** with **secant update** and **3rd order Adam Bashforth** method
- Utilised the code for **ode45**, a versatile ODE solver on **MATLAB** in order to solve non-stiff differential equations
- Examined the effect of different step sizes, initial guess values on variations in convergence of solutions using graphs

POSITIONS OF RESPONSIBILITY

Associate Placement Coordinator | Placement Cell, IIT Bombay (Jul '22 - Present)

Selected in a core managerial team of 10 for the execution of the end-to-end operations in a hybrid placement season

- Managing preparatory events, PPTs, hybrid assessments, **200+** tests for the campus placements of **1900+** students
- Spearheading the overall recruitment process of **50+** companies in diversified sectors as the **sole point of contact**
- Aiming to obtain multiple **Pre-Placement Offers** from various companies to maximise number of student placements

Mentor | Department Academic Mentorship Program, Chemical Engineering (May '22 - Present)

Selected in a team of 40 from 98 applicants based on rigorous interview process, interpersonal skills and peer reviews

- Mentoring **6** sophomores to guide them in their academic endeavours and helping them in difficulties such as backlogs
- Providing **counsel** on a one-to-one basis to ensure holistic development & assisting them overcome personal challenges
- Responsible for organising and managing **10+ events** and **help sessions** that are targeted towards **250+** students

Institute Cultural Convener | StyleUp - The Fashion Club, IIT Bombay (Jun '21 - May '22)

Nominated (5 out of 1000+) by Institute Fashion Nominee to represent Fashion

- Part of a **7 member team** working on organising **17+** fashion events for **10K+** students throughout the tenure
- Orchestrated **Showstopper**, held offline, attracting over **100+** participants and co-mentoring a **15** membered team
- Organised **ICSP (Institute Cultural Summer Projects)** under the parasol of fashion designing for the first time
- Designed **posters** for events and curated content for **blogs** for the club's social media handles on Facebook, Instagram

PROFESSIONAL EXPERIENCE

Business Analyst - Innovation (Intern) | Capgemini (Jun '22 - Jul '22)

Innovation Team at SAP Europe Center of Excellence, Capgemini

- Analysed data required to propose demand planning solutions for **Dark Stores** by understanding client requirements
- Built an interactive dashboard in **SAP Analytics Cloud** by implementing tools for data visualisation on given case
- Explored **Energy Transition** in the **Chemical industry** via cases highlighting the contribution of Oil & Gas sector

EXTRACURRICULAR ACTIVITIES

- Received Champion(**1st**) prize in **power point presentation** competition organised by Ramakrishna Math ('16)
- Performed **Arangetram** in **Bharatnatyam** and received certification for it under Bharatiya Sangeet Samiti ('15)
- Received the Master Diploma with **First** grade in **Bharatnatyam** awarded by Bharatiya Sangeet Samiti ('16)
- Secured **3rd** position in R-East ward Science Competition by a presentation on topic of **waste management** ('14)
- Completed **Camp Kennedy Space Center**, a three day camp conducted at KSC visitor complex, **NASA** ('15)
- Bagged **1st** prize in **Movie Making** at Athena, an inter-school event conducted by N. L. Dalmia High School ('16)