



Vidushi Verma
Mechanical Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Female
DOB: 30-08-2001

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

Pursuing a **Minor Degree** in **Statistics** under the Mathematics Department, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Qualified **DELTA A1** and **DELTA A2 French** language proficiency diploma exams administered by Alliance Française [2017]
- Scored a **perfect grade point (AA)** in **13 academic courses** till date and secured an SPI of **9.8** in the 3rd semester [2021]
- Co-authored the **extended abstract**: Jagdale K., Verma V. et al., "Sanket - Technology Demonstration of Antenna Deployment System on PSLV Stage 4 Orbital Platform" presented and **published** in **NCSSTA 2020**, Trivandrum, India [2020]

POSITIONS OF RESPONSIBILITY

Core Group Member | Cultural and Events Head | Mood Indigo 2021 [April'21 - Present]

Asia's largest college cultural festival | Net Worth: INR 70 Million | 1,46,000+ Footfall | 240+ Events

- Spearheading a **2-tier** team of **250+** members to execute **100+ events** featuring **240+** national and international artists
- Establishing strategic alliances and negotiating to secure _____ worth of showcase acts under a budget of _____

Key Initiatives:

- Orchestrated **Indoor Indigo** a series of **10+** virtual events with a viewership of _____ y-o-y increase in viewership
- Introducing **Global Village**, a global festival park with live performances, stalls, food and hunters of **20+** countries

Convener | Classical and Folk Arts Club [May'20 - April'21]

Part of a 5-member team to promote classical and folk arts amongst students and staff members

- Promoted the cultures of Indian states under **Ek Bharat Shreshtha Bharat (MHRD)** by conducting **10+** workshops and talks
- Managed a budget of _____; ideated and conducted a diverse set of events catering to **15,000+** campus residents

Teaching Assistant | CH 107 (Physical Chemistry) [January'21 - April'21]

Guide: Prof. Arindam Chowdhary, Department of Chemistry, IIT Bombay

- Mentored **50+** freshmen in quantum physical chemistry, evaluated students performance and conducted regular help sessions

PROFESSIONAL EXPERIENCES & PROJECTS

Team Member-Mechanical Subsystem | IIT Bombay Student Satellite Program [May'20 - Present]

Aiming to develop an indigenous Antenna Deployment System with TRL-8

- Simulated the **launch loads of PSLV** by performing static structural, modal, harmonic and vibrational **analysis** in **ANSYS**
- Analysed** the simulations to check for the system's **structural integrity** on **4+** parameters and made relevant design changes
- Conceptualised the antenna deployment system's **Nichrome Burn-Wire** release mechanism, ideated its repeatable integration
- Developed an **integration sequence** and wire routing for the auxiliary system, maintaining requirements of all subsystems

DeMITasse Energies | Mechanical Engineering Intern [August'20 - December'20]

Designing a cold gas thruster system for CubeSats

- Researched and benchmarked various **nozzle and thruster system designs** compatible with Nano-Satellites and CubeSats
- Simulated** 10+ nozzle designs with varying parameters on **Ansys Fluent**; analysed the results for best output and applicability

Manch 4.0 | Deutsche Bank [December'20 - May'21]

- Researched the **Indian government initiatives, policies, and power financiers** to identify various renewable energy financing methods and identified **4+** stock opportunities for investment in relevant sectors that would be benefited from the above

EXTRACURRICULAR ACTIVITIES

International Exposure	<ul style="list-style-type: none">Selected for the Indo-French Student Exchange program for 6 weeks at Bourg Saint Maurice, France under the aegis of the French Embassy and hosted the french counterpart on a reciprocal basis [2017]
Cultural	<ul style="list-style-type: none">Actively participated in ideating and organising IIT Bombay Parliamentary Debate Tournament [2019]Cleared Junior level Diploma Examination For Kathak with distinction post 8 years of formal training [2017]Completed a 5 week course on charcoal painting offered by NIFA-National Institute of Fine Arts [2020]Successfully completed a 6 month course in Fine Arts under NSO Culturals IIT Bombay [2020]
Technical	<ul style="list-style-type: none">2nd Position in the 9th Inter IIT Tech Meet; presented IITB Student Satellite Programs's system- Sanket [2021]Proficient in SOLIDWORKS, AutoCAD, Ansys (structural, fluent), C++, Python, R Programming, LaTeX
Social Service	<ul style="list-style-type: none">Actively taught art and mathematics at Shiksha Kendra- a remedial school for under privileged children [2018]Volunteered at HOPE- a Kerala based NGO; devised a strategy to increase their social media presence [2021]