



Sara Atnoorkar
Energy Science and Engineering
Indian Institute of Technology Bombay

22B0605
B.Tech.
Gender: Female
DOB: 29/04/2004

| Examination | University | Institute | Year | CPI / % |
|-------------|------------|------------|------|---------|
| Graduation | IIT Bombay | IIT Bombay | 2026 | |

Pursuing a minor degree in **Industrial Engineering and Operations Research**

SCHOLASTIC ACHIEVEMENTS

- Awarded change of branch in recognition of academic excellence for placing among **top 8%** of **1300+** students ('23)
- Ranked among **top 200** out of **0.4 million+** appearing candidates in the **MHT-CET** entrance examination ('22)
- Secured the '**Award for Excellence**' for exceptional performance in the academic year among **200+** students ('18)

POSITIONS OF RESPONSIBILITY

Institute Secretary, Academic Affairs | Undergraduate Academic Council (May '24 - Present)

Highest Nominated Student Officer, addressing academic queries and grievances of **5000+** students

- Coordinating among **20+** bodies and divisions of the institute to improve **academic policies** at the institute level
- Leading a team of **4** coordinators to conduct **Help Sessions** for **35+** courses, with **500+** students in attendance
- Organised department-wise Branch Induction sessions for **1400+** upcoming sophomores from **10+** academic units

Institute Student Mentor & Department Academic Mentor | SMP (May '24 - Present)

Selected after a rigorous process comprising a statement of purpose, peer reviews and interviews

- One of **19** out of **1400+** third-year students responsible for mentoring a group of incoming **first-year** students
- Part of a **149**-member team aiming to play a **facilitative, supportive and developmental** role for freshmen
- Responsible for mentoring **9** sophomores, fostering **holistic development** and guiding their academic choices
- Identifying information gaps and planning targeted support for **40+** students under the **Sessions** subdivision

Teaching Assistant | Department of Biosciences and Bioengineering (Oct '23 - Dec '23)

- Assisted **30+** first-year students in weekly **tutorial** sessions through problem solving and **doubt clarification**
- Provided **logistical** support to the professor-in-charge through invigilation and evaluations of **300+** students

PROFESSIONAL EXPERIENCE AND KEY PROJECTS

Council on Energy, Environment and Water | Research Intern (May '24 - Jul '24)

Part of the Energy Transitions vertical at one of Asia's leading not-for-profit policy research institutions

- Engaged in research on global small hydro policies aimed to assist the **Ministry of New and Renewable Energy**
- Analysed electricity tariffs from **20+** Indian states, for a rooftop solar-plus-storage system **savings calculator**
- Reviewed **25+** business model proposals to identify **3** key models with battery storage solutions for consumers
- Conducted a literature review on sentiment towards rooftop solar adoption, identifying **10+** critical adoption factors

Designing Equitable and Realistic Climate Scenarios | Research Project (Dec '23 - Apr '24)

Guide: Prof. Anjali Sharma, Ashank Desai Centre for Policy Studies

- Highlighted Global North-South disparities by analyzing **equity assessments** in IPCC's Sixth Assessment Report
- Analysed energy demand patterns by evaluating **3000+** scenarios predicted by **90+** climate models using **Python**
- Calculated **median** outcomes up to **2100** from total and industrial final energy demand scenarios across **10** regions

Hospital ICU Simulation | Course Project: Simulation Modelling and Analysis (Mar '23 - May '24)

Guide: Prof. Jayendran Venkateswaran, Industrial Engineering and Operations Research

- Worked in a team of **4** on **discrete-event system modelling** of a hospital, focusing on ICU use optimisation
- Cleaned and sorted a dataset of **13,000+** data points from a children's hospital ICU to ensure data integrity
- Applied statistical distribution fitting and performed p-value tests on **30+** data sets, ensuring accuracy of the model
- Simulated the hospital using AnyLogic, revealing a **50%** underutilization in the pediatric ICU through the results

EXTRACURRICULAR ACTIVITIES

- Trained in **Kathak** for **10+ years** and performed at **Dharohar**, the classical and folk arts festival at IIT Bombay
- Certified in **5** out of **7** levels (Madhyama Purna) in Kathak conducted by Akhil Bhartiya Gandharva Mahavidyalaya
- Ranked among the **top 20** teams in IITB in **BCG Ideathon**, with an initiative to improve solar panel utilisation
- Elected as the **Head Girl** of the school student council for the secondary section among **1000+ students**
- Presented the '**Outstanding Project Award**' by Avanti Foundation Young Women's Leadership Program
- Received **A grades** in Elementary and Intermediate Grade Drawing examinations showing **artistic proficiency**