



**Jitartha Talukdar**  
**Aerospace Engineering**  
**Indian Institute of Technology Bombay**

**210010031**  
**B.Tech.**  
**Gender: Male**  
**DOB: 21/08/2002**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2025	

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

## SCHOLASTIC ACHIEVEMENTS

- Secured **98.93 percentile** in JEE (Joint Entrance Examination) Advanced amongst **0.14 million** candidates ('21)
- Achieved **99.78 percentile** in JEE (Joint Entrance Examination) Mains amongst **0.94 million** candidates ('21)
- Secured a spot in the **top 1 percentile** among 0.3 million candidates in BITSAT, achieving a score of **398** marks ('21)

## POSITIONS OF RESPONSIBILITY

**Institute Culturals Convener** | Symphony - The Music Club, IIT Bombay (May'22- May'23)

*Selected from a competitive pool of 50+ candidates to work in a team of 9, managing a budget of INR 500,000+*

- Organised Surbahaar, managing 10+ bands with a contingent of 100+ musicians, for an audience of 2000+ people
- Worked as the point of contact for 15,000+ students to various musical resources and events across the institute
- Engineered a 150% year-on-year increase in the participation to IMLP and a 48% increase in social media engagement
- Managed a team of 10+ instructors under the Introductory Music Learning Program (IMLP), curating learning modules and giving practical lessons on Keyboard, Guitar, Drums and Music Production to 600+ students

**Institute Student Mentor** | Student Mentorship Program, IIT Bombay (Jun'23-Present)

*Selected as one of only 14 third-year students from a spirited pool of 380+ applicants after a rigorous selection process*

- Responsible for mentoring a group of freshmen by helping them out with academic as well as non-academic problems
- Assisting in answering 50+ queries for incoming freshers regularly on the **NewBee portal** developed by SMP

**Department Academic Mentor** | DAMP, Aerospace Engineering, IIT Bombay (Jun'23-Present)

*Selected as one of 19 third-year students from a competitive pool of 45+ applicants after a rigorous selection process*

- Responsible for **guiding** a group of 6 students moving into second-year and helping them with their academic decisions
- Coordinated the Aerospace Internship Mentorship Program (**AIM-P**) by creating database of 25+ experienced seniors across 7+ profiles, connecting them with 80+ students to provide guidance for their internship preparation

## KEY PROJECTS

**Rotor-Gust Interaction** | Supervised Learning Project (Aug'23-Present)

*Guide: Prof. Dhwanil Shukla | Department of Aerospace Engineering*

- Spearheaded the development of an **in-house vortex gust generator** in a low-speed wind tunnel, employing an airfoil design based on aerodynamic laws like **Kelvin's Circulation Theorem** and **Kutta-Joukowski Theorem**
- Designed and **implemented control algorithms** using code to precisely regulate the pitch angle of the airfoil

**Student Satellite Program** | IIT Bombay (May'22- Feb'23)

*A 50+ member student team with the vision of making IIT Bombay a centre of excellence in space technology*

- Designed the schematic of development board for **MT9T031 image sensor** using **EAGLE** to learn PCB designing
- Conducted extensive **literature survey** of Feature Extraction, Star Matching and Estimation to understand STADS
- Modelled the current output of a resistive circuit on applying a **PWM voltage** to imitate a Magnetorquer in CLS

**Data Analysis of Branch preferences in IITs** | AE102 - Course Project (Apr'22-Jul'22)

*Guide: Prof. Amuthan A. Ramabathiran | Department of Aerospace Engineering*

- Studied the college-branch choices of 6000+ students by analysing data from JoSAA portal over the past 5+ years
- Used libraries like **matplotlib**, **NumPy**, **pandas** to visualize distribution of students in 25+ branches across IITs
- Concluded students' preference for CS and Electrical branches in newer IITs compared to other branches in older IITs

## EXTRACURRICULARS

Music	<ul style="list-style-type: none"><li>Secured <b>First Division</b> in Hindustani Vocals <b>Visharad</b> exam, Bhatkhande Sangit Vidyapith ('15)</li><li>Won <b>First Prize</b> in Goonj, the <b>inter-hostel Music GC</b>, representing Hostel-2 ('23)</li><li>Passed <b>Grade 4</b> Western Classical Guitar Exam of ABRSM, London with <b>Merit</b> ('18)</li><li>Taught Guitar as an <b>IMLP instructor</b> over a span of 8+ classes with over 100+ students ('22)</li><li>Participated as <b>vocalist</b> in Surbahaar, BOTB etc; performing for an audience of 2000+ ('23)</li></ul>
Acting	<ul style="list-style-type: none"><li>Acted in an <b>Assamese film</b> "Aei Matite" and several other Assamese plays across the state ('17)</li><li>Represented Holy Home Secondary School in Inter-School Dramatics competition ('14)</li></ul>
Sports	<ul style="list-style-type: none"><li>Represented Holy Home Secondary School in CBSE inter-school Football tournament ('17)</li><li>Attended 2-day Rubiks Cube solving workshop, and won <b>First prize</b> in competition ('16)</li></ul>
Others	<ul style="list-style-type: none"><li>Participated in ProdCom, a Product management competition organised by Consult Club ('23)</li></ul>