



Parsana Vivek Navinbhai
Aerospace Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
DOB: 30/05/2003

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

Pursuing a minor degree in Computer Science and Engineering at IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Currently **ranked 8th** academically in a class of 77 in the Department of Aerospace Engineering
- Cleared **Jawahar Navodaya Vidyalaya** Examination (held by Government of India) (2014)
- Secured **96.69** percentile out the of 0.15 + million candidates who appeared for **JEE Advanced** (2021)
- Secured **99.59** percentile out the of 0.85 + million candidates who appeared for **JEE Mains** exam (2021)

KEY PROJECTS

Collide | Season of Code | Web and Coding Club, IIT Bombay (May'23 - July'23)

- Developed a **Game Engine** with **SDL2** and a robust physics framework with broad phase collision detection
- Implemented detection and **Resolution Algorithm**, and **Graphics** for the game to look visually stunning
- Developed and executed an interactive **Neon Blaster Game**, incorporating dynamically generated objects with diverse **Health Levels** and a **Player-Controlled Gun** to offer a stimulating gameplay encounter

Effect of COVID on flight Industry | Course Project (Mar'22-July'22)

Guide: *Prof. Amuthan A. Ramabathiran* | Department of Aerospace Engineering (IIT Bombay)

- We analyze the effect through **hypothesis testing** and determine which country affected most during Cov'19
- We represent information in nice **Python** code and notebook using **Matplotlib**, **Pyplot**, **Panda**, & **NumPy**

Data Driven Astronomy | Winter in Data Science Project, IIT Bombay (Dec'22)

- Proficient in web scraping using the **BeautifulSoup** library to extract data from websites directly.
- Experienced in working with the **Astropy Library** and **Sigma-Clipper Statistics** for importing and analyzing FITS files and identifying peaks and reducing noise respectively along with **Curve-Fit** library
- Skilled in galaxy classification through **Machine Learning** algorithms for precise and efficient categorization

Network Security | Summer of Science, IIT Bombay (May'23-July'23)

- Acquired comprehensive knowledge of **Computer Networks**, protocols, standards, and transmission modes
- Explored **Cryptography**, message integrity, **Digital Signatures**, and **End-Point Authentication**
- Proficient in securing network components, including **TCP connections**, wireless **LANs**, and web interfaces

GSLV MAK III analysis | Course Project (Jan'23-Apr'23)

Guide: *Prof. Amuthan A. Ramabathiran* | Department of Aerospace Engineering (IIT Bombay)

- Worked in a 5-member team, analyze flow for **Payload Fairing** and structure of **Payload Adaptor**
- Successfully crafted structural **Models** of payload fairing and adaptor using cardboard, sticks and 3D printer

TECHNICAL SKILLS

- Programming:** DSA, C, C++, Python, HTML, CSS, MySQL
- Office tools:** Microsoft Office, \LaTeX
- Key Courses:** Data Structures and Algorithm, Logic in Computer Science, Data Analysis & Interpretation

INTERNSHIP

Business Development and Strategy Intern | Yodacart (July'22)

- Developed strategies for driving sales through various channels and planning for Delhi - Bangalore expansion
- We worked in a team of 2 and Negotiated with **70+** retail shops across Mumbai for opening experience center

POSITIONS OF RESPONSIBILITY

Event and Competition Coordinator | Zephyr Aviation Festival (Dec'22 - Mar'23)

- Successfully organized a Kite Making Workshop and Kite Flying Event for campus students
- Took an active role in the **Publicity** of the events and workshops by visiting coaching centers in Thane
- Selected as the **Marketing Manager** for the upcoming year 2023-24 fest, Will collaborate with **Cross-Functional Teams**, and work towards maximizing attendee engagement and overall event success

EXTRACURRICULAR ACTIVITIES

- Represent the hostel 5 as a team in the volleyball **General Championship** (2023)
- Win a bronze medal in volleyball intra-department tournament held by AEA council (2023)
- Completed an year-long training in **Cricket** under **National Sport Organisation**
- Participated in **Equity Research** competition and **Analyze** the stock of a company