



**Prashasti Abojwar**  
**Aerospace Engineering**  
**Indian Institute of Technology Bombay**

**210010004**  
**B.Tech.**  
**Gender: Female**  
**DOB: 30/03/2004**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2025	6.61

### PROFESSIONAL EXPERIENCE

<b>Sensorama Technologies</b> Software Dev [Jun-Jul 2024]	<i>Awarded LOR for commendable contribution in developing enhanced touch user Interface of HPLC System</i> <ul style="list-style-type: none"> <li>Developed UI with data QA for a stand-alone software HPLC system using ESP32 &amp; touch screen display</li> <li>Enhanced UI using Squareline studio GUI using LVGL and TFT_eSPI libraries in Arduino C language</li> <li>Implemented SD card for storing and accessing multiple user profiles, improved user experience by 35%</li> </ul>
<b>NullClass Edtech</b> Data Analyst [Jul 2024]	<i>Awarded LOR for commendable contribution to build Real-time Job Analytic Portal for optimized search</i> <ul style="list-style-type: none"> <li>Reduced search time by 25%, developing precise job search solutions using 30+ Tableau charts &amp; filters</li> <li>Optimized 1.6M data analysis using NumPy and Pandas, streamlining data visualization with dashboards</li> </ul>

### TECHNICAL PROJECTS

<b>Image Classifiers</b> Guide: Prof. Biplab Banerjee [2024]	<i>Project 1: Leveraged adv CNN architectures to credibly enhance &amp; improve image classification accuracy</i> <ul style="list-style-type: none"> <li>Resulted in <b>12%</b> and <b>19%</b> accuracy gains, refining <b>CIFAR-100</b> classification using <b>ResNet-18 &amp; Dense-Net</b></li> <li>Increased classification <b>accuracy by 27%</b> with <b>Efficient Net B7</b> integrated <b>ViT</b> and <b>multi-head attention</b></li> </ul>
	<i>Project 2: Enhanced satellite image classification accuracy with adv Drop-Block regularization techniques</i> <ul style="list-style-type: none"> <li>Achieved enhanced accuracy of <b>98.5%</b> in classifying multiple <b>satellite images</b> using CNN architectures</li> <li>Increased accuracy by <b>(1.5-2%)</b> using <b>12+ dropping methods</b>: Dropout, Spatial-Drop, mainly Drop-Block</li> </ul>
<b>Founder's Office Shadow Project</b> Quick-Commerce [2026]	<i>Simulated end-to-end Founder's Office ownership for a high-burn, high-velocity quick-commerce startup</i> <ul style="list-style-type: none"> <li>Diagnosed <b>unit economics</b>, burn drivers and city-level <b>execution bottlenecks</b> across dark-store operations</li> <li>Authored <b>decision memos</b> with explicit trade-offs and designed SOP, KPIs and CEO-level reporting systems</li> <li>Delivered a <b>30-60-90 day execution roadmap</b> aligned to measurable business outcomes <b>with ownership</b></li> </ul>
<b>AI System to Reduce CEO Cognitive Load</b> [2026]	<i>Built an AI-powered internal tool focused on reducing executive decision fatigue, not just automation</i> <ul style="list-style-type: none"> <li>Converted raw ops updates and metrics into <b>founder-ready weekly summaries and priority briefs</b></li> <li>Designed prioritization and <b>risk-flagging logic</b> to surface critical issues requiring immediate attention</li> <li>Reduced manual reporting effort while improving speed, clarity and quality of <b>executive decision-making</b></li> </ul>
<b>Startup Efficiency Audit</b> Self-Project [2026]	<i>Conducted a data-driven internal audit to identify hidden operational and cost inefficiencies</i> <ul style="list-style-type: none"> <li><b>Modeled burn, cost allocation</b>, and output per function for a Zepto-like quick-commerce operating model</li> <li>Identified highest-impact operational and cost leaks through structured, <b>metrics-back root-cause analysis</b></li> <li>Proposed <b>execution-ready fixes</b> across process redesign, adjustments and targeted automation initiatives</li> </ul>

### LEADERSHIP ROLES

<b>NCC IIT Bombay Media Head</b> [2023-2024] <b>Web Secretary</b> [2022-2023]	<i>Spearheaded 30+ member 3-tier council   Decorated with Cadet under Officer rank, 2<sup>nd</sup> highest rank NCC</i>			
	<table border="1"> <tr> <td><b>Leadership</b></td> <td> <ul style="list-style-type: none"> <li>Led <b>70+</b> cadets as <b>Company Captain</b>, securing <b>First position</b> in overall Championship</li> <li>Appointed <b>Contingent Commander</b>, leading <b>70+ cadets</b> on 74<sup>th</sup> Republic Day Parade</li> </ul> </td> </tr> <tr> <td><b>Management</b></td> <td> <ul style="list-style-type: none"> <li>Organized <b>20+ events</b> &amp; Annual Training Camp-410 impacting <b>500+</b> cadets and institute</li> <li>Initiated Media Championship with <b>5+ genres and workshops</b> for broad exposure</li> <li>Added <b>Book of Record</b> &amp; FAQ page, increasing visitors by <b>50%</b> &amp; boosting engagement</li> </ul> </td> </tr> </table>	<b>Leadership</b>	<ul style="list-style-type: none"> <li>Led <b>70+</b> cadets as <b>Company Captain</b>, securing <b>First position</b> in overall Championship</li> <li>Appointed <b>Contingent Commander</b>, leading <b>70+ cadets</b> on 74<sup>th</sup> Republic Day Parade</li> </ul>	<b>Management</b>
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### ACCOLADES & EXTRA CURRICULARS

<b>Scholastic</b>	<ul style="list-style-type: none"> <li>Achieved <b>99.27 percentile</b> in MHT CET 2021 – PCM out of over <b>0.19 million</b> candidates nationwide</li> <li>Earned <b>3 specialist badges</b> from Coding Ninjas in Array, LinkedList and BST for problem-solving skills</li> </ul>
<b>Skills</b>	<ul style="list-style-type: none"> <li>Strategy &amp; Ops: problem structuring   KPIs   SOPs</li> <li>Tech: C   C++   SQL   python   React   Node   Next</li> <li>Software: Microsoft Office   Tableau   PowerBI</li> <li>Miscellaneous: High-Ownership Execution</li> </ul>
<b>Sports</b>	<ul style="list-style-type: none"> <li>Captain of <b>1<sup>st</sup> Girls Kabaddi Team</b> at IIT Bombay</li> <li><b>1<sup>st</sup> Runner up</b> position Udghosh &amp; Avhaan kabaddi</li> </ul>
<b>NCC</b>	<ul style="list-style-type: none"> <li>Attained '<b>A</b>' grade in the <b>B and C certificate</b> exam</li> <li>Performed <b>Guard of Honour</b> for all <b>3 retired chiefs</b></li> </ul>
<b>Cultural</b>	<ul style="list-style-type: none"> <li>Special Mention as <b>Cult Person of the year</b> at NCC</li> <li><b>Silver</b> in lifestyle General Championship in NCC</li> </ul>
<b>Social</b>	<ul style="list-style-type: none"> <li>Mentored <b>200+ students</b> at Navodaya Vidyalaya</li> <li>Led <b>30+ team</b> turn <b>1000+</b> plastic bottle - ecobricks</li> </ul>