



**Ankit Singh**  
**Civil Engineering**  
**Indian Institute of Technology, Bombay**

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**B.Tech.**  
**Gender: Male**  
**DOB: 02-12-1998**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	

### SCHOLASTIC ACHIEVEMENTS

- Secured a **perfect** Semester Performance Index of **10.0** in the 6<sup>th</sup> semester [‘20]
- Secured **98.79 percentile** among 1.2 Million aspirants in **JEE Mains** [‘17]
- Secured **97.33 percentile** among 0.22 Million aspirants in **JEE Advanced** [‘17]
- Bagged **2<sup>nd</sup> Rank** in the **City** in the **Science Talent Search Examination** [‘16]
- Conferred the **proficiency award** for being school **subject topper** (Mathematics) in class XII [‘16]
- Among the top **3** position holders nationally in the **NASA - Astronomy Olympiad** [‘14]

### PROFESSIONAL EXPERIENCE

**Architecture Improvement Edtech | Speed Labs | MUMBAI** [Dec’18]  
 Worked with Software Development and content team

- Analysed **software architecture** from User perspective for **Competitive Entrance Exams** preparation
- Conceptualized new features with **planned algorithm** to give improved, user friendly experience
- Established Chapter wise timeline and lead plan of practice tests to monitor the overall progress

### KEY PROJECTS

**MACHINE LEARNING | Stanford University** [July’20-Aug’20]  
 Part of an online course offered through Coursera

- Created multi-layered neural network with **95%** accuracy using backward propagation to perform digit recognition
- Implemented **Support Vector Machine** to build a spam classifier for emails with **90%** accuracy after pre-processing
- Applied concept of collaborative filtering algorithm to build recommender system for movies based on user ratings

**Academic Project in C++ | Chain Reaction** [Sept’17-Nov’17]  
 Guide: Professor Krishna S., Dept. of Computer Science Engineering

- Implemented concepts of **Recursion, Functions, Arrays, Pointers** and **Structures**
- Successfully designed a 2-player **C++ based simulation** that enables the users to play **Chain Reaction**

**Course Project in Applied Hydraulics | Pipe flow networks** [Apr’19]  
 Guide: Professor Riddhi Singh, Dept. of Civil Engineering

- Analysed complex pipe flow network problems using **Newton Raphson method**
- Designed a code for computing final discharges using nodal analysis and loop head-loss equations

### POSITIONS OF RESPONSIBILITY

**Coordinator | Events, TechFest | IIT BOMBAY** [Apr’18-Dec’18]  
 Part of team for Asia’s Largest Science & Technology Festival | Budget: 32+ million | Footfall: 0.17 million

- Ideated and managed the competitions of **Technorion**, a National level Competition of Techfest with participation over **2000+** students
- Collaborated with SoULS for **Student Solar Ambassador Program**, a social initiative of Techfest attempting **Guinness World Record** with participation of **5000+** students
- Over headed **100+** college ambassadors to increase participation and publicise Techfest
- Supervised **Boeing Aeromodelling competition** providing a unified national platform for students interested in aerospace to demonstrate their aero-modelling expertise
- Competition was sponsored by **Boeing, the Aircraft manufacturing company**, with a participation of **180+ teams** who competed for a cash prize of about **INR 2,40,000/-**

### CERTIFICATIONS

- Awarded the **TestDome gold** certificate for being ranked in the **top 10%** in **Python** programming test
- Cleared the **HackerRank** Skills verification test for **Problem Solving** which covers topics of data structures and algorithms

### TECHNICAL SKILLS

- Programming Languages:** C, C++, MySQL, Python, MATLAB, HTML
- Software:** SolidWorks, AutoCAD, RISA-2D, MS Office, Adobe Photoshop

### EXTRA-CURRICULARS

<b>Sports</b>	<ul style="list-style-type: none"> <li>Bagged back to back <b>Gold</b> and <b>Silver medals</b> in <b>Badminton Sports Weekend 2020 &amp; 2019</b></li> <li>Participated in Badminton <b>General Championship</b> and won the <b>Bronze medal</b> in a team event [‘20]</li> <li>Represented hostel in Sophomore <b>Crossy GC</b> and helped the hostel to bag <b>3<sup>rd</sup> position</b> [‘18]</li> </ul>
<b>Social</b>	<ul style="list-style-type: none"> <li>Worked as a Volunteer of <b>Green Campus</b> and completed <b>80+</b> hours of intensive work [‘17-‘18]</li> </ul>
<b>Cultural</b>	<ul style="list-style-type: none"> <li>Acted in <b>Freshiezza Music Video Competition</b> and secured <b>5<sup>th</sup> position</b> among <b>600+</b> freshers [‘17]</li> <li>Ideated and acted in <b>Main Dramatics General Championship</b> [‘18]</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>Worked as an <b>Advanced Maths Expert</b> for <b>Chegg.com</b>, an Online tutoring and learning platform [‘20]</li> </ul>