



**TEZAN SAHU**  
**Mechanical Engineering**  
**Indian Institute of Technology Bombay**

**170100035**  
**UG Second Year**  
**Male**  
**DOB: 19/12/1998**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2019	9.75
Intermediate/+2	CBSE	Jaipuria School	2017	96.20
Matriculation	ICSE	St. Mary's ICSE School	2015	99.20

Currently pursuing a **Minor in Computer Science and Engineering** Department, IIT Bombay

## SCHOLASTIC ACHIEVEMENTS

- **Ranked 1<sup>st</sup>** overall among 150 students in the **Department of Mechanical Engineering**
- Secured **All India Rank 514** among 0.22 million aspirants in **IIT-JEE(Advanced)** [<sup>17</sup>]
- Secured **99.94 percentile** amongst 1.2 million candidates in **IIT-JEE(Main)** [<sup>17</sup>]
- Secured **All India Rank 1** in the **ICSE Board Examinations** among 0.16 million students [<sup>15</sup>]
- Ranked among the **top 1%** in the **NSE Chemistry** out of 41396 candidates across India [<sup>16</sup>]
- Ranked among the **top 1%** in the **NSE Physics** out of 44176 candidates across India [<sup>16</sup>]
- Ranked among the **top 1%** in the **NSE Astronomy** out of 2239 candidates across Maharashtra [<sup>16</sup>]

## TECHNICAL PROJECTS

**Decentralized Application for Land Registration** [Aug '18]  
*ETHIndia Hackathon, Bengaluru*

- Awarded the **Top Hack Prize by Lendroid** amongst **400 hackers** who participated in the event
- Part of a 3 membered team that developed a **DApp** using the **APIs of Lendroid** for **land registration**
- **Tokenized this land** so that it could be used as a collateral while borrowing/lending cryptocurrency
- **Deployed 4 smart contracts** on Ethereum's Kovan Testnet to demonstrate the Proof of Concept

**Attendance System Using Face Recognition** [May - Jul '18]  
*Institute Technical Summer Project | Institute Technical Council, IIT Bombay*

- **Led a team of 4 members** to construct an Attendance Recording Bot that could use **face recognition**
- Developed **2 Android apps**, one for attendance checking and another for bot control using bluetooth
- Deployed a database on a server for storing the information about students and professors using **Django**
- Implemented the model on the faces of **200 students** to attain a staggering **accuracy** of around **95%**

**Reading Project On "Machine Learning"** [May - Jul '18]  
*Summer of Science | Mathematics and Physics Club, IIT Bombay*

- Completed the **Machine Learning Specialization** course offered by the **University of Washington**
- Analysed **5 research papers** and took other courses on Machine Learning and Deep Learning Algorithms
- Mastered working with modules such as **GraphLab Create, TensorFlow** and **Scikit-Learn**
- Implemented **regression, classification, clustering** algorithms and various **neural networks** on datasets involving **property prices, sentiment analysis, recommender systems** and **image recognition**

**Competitive Coding** [May - Jul '18]  
*Seasons of Code | The Web and Coding Club, IIT Bombay*

- Coded **data structures** like Linked Lists, Binary Search Trees, Hash Tables, Tries and Segment Trees
- Implemented different **searching/sorting** algorithms, **Greedy** Algorithms and **Dynamic Programming**
- Explored basic Graph Theory including BFS/DFS, Minimum Spanning Trees and Dijkstra's Algorithm
- Participated in several **coding contests** held across platforms like **Codeforces, Hackerrank** and **SPOJ**

**Remote Controlled (RC) Car for XLR8** [Aug - Sept '17]  
*Electronics and Robotics Club, IIT Bombay*

- Designed a **manually controlled car** capable of negotiating **8 different obstacles** on a designated track
- Implemented the **rocker mechanism** successfully for the car to ascend slopes greater than **30 degrees**

## TECHNICAL PROFICIENCY

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Programming	C/C++, Python, Java
Development	Django, TensorFlow, Graphlab Create, <b>Solidity</b> , SQL, <b>Android</b> , HTML, CSS3
Software/Tools	<b>Git</b> , MATLAB, Octave, <b>Truffle</b> , $\text{\LaTeX}$ , <b>AutoCAD</b> , <b>SolidWorks</b> , Adobe Photoshop, Adobe Premiere Pro, Arduino, Amazon Web Services (AWS)

## CERTIFICATIONS

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- **Blockchain Fundamentals Training** | *Blockchain Semantics* [Jul '18]
- **Machine Learning Specialization** | *University of Washington and Coursera* [May '18]
- **Certified Marketing Analytics Practitioner** | *Henry Harvin Education* [Apr '18]

## POSITIONS OF RESPONSIBILITY

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Convener, The Web & Coding Club, IIT Bombay [Apr '18 - Present]

- Co-founded the **Blockchain Circle** at IIT Bombay and conceptualized **10 events** for the upcoming year
- Part of a **team of 22** students, catering to around **3000 coding enthusiasts** and students on campus
- Organized and **spoke at** sessions on **Web Scraping**, **Version Control**, **Open Source** and **Blockchains**
- Contributed towards **developing the website** for **Inter IIT Tech Meet 2018**, to be held at IIT Bombay

Marketing Coordinator, The Entrepreneurship Cell, IIT Bombay [Mar '18 - Present]

- Contacted **200+** **companies** to explore new synergies and ensured completion of all promised deliverables
- **Mentored 20 freshmen** in case study solving, BMC filling and pitch deck making during EnB Buzz
- **Single-handedly developed the website** for the DLT Innovation Challenge, a pan-India level hackathon

Class Representative, Department of Mechanical Engineering, IIT Bombay [Aug '18 - Present]

- Played an active role in **scheduling lectures, labs and examinations** during the semesters
- **Conveyed the opinions** of peers effectively to the professors and department council members
- Conducted site visits, talks by alumni, cultural events and other such activities for the department

Events Organizer, Techfest, IIT Bombay [Nov '17 - Jan '18]

- Controlled the **virtual betting platform** for **International Robowars**, with **6000+** **audience**
- Oversaw the **travel and stay of 3 international teams** that had come to participate in the event

School Head, St. Mary's ICSE School [Feb '14 - Jan '15]

- Managed a council of **20 students**, responsible for the management of the discipline and intra-school events
- Represented and **won accolades** for the school in **several inter-school events** during the tenure

## COURSE UNDERTAKEN

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Computer Science	*Introduction to Machine Learning, Computer Programming and Utilization
Core Courses	*Solid Mechanics, *Fluid Mechanics, *Thermodynamics, Engineering Mechanics, Engineering Graphics and Drawing, Mechanical Workshop
Miscellaneous	*Engineering Metallurgy, *Economics, *Introduction to Electrical & Electronics Circuits, Calculus, Linear Algebra, Quantum Physics and Application, Biology

*\*to be completed by Nov '18*

## EXTRA CURRICULARS

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- **Won the Vodafone's Faster Smarter Better Challenge** in Navi Mumbai [12 & 14]
- **Finalist** of the **personality contest** at **Cascade 22**, one of the biggest inter-school fests in Mumbai [14]
- Conducted **3 solo painting exhibitions** featuring 101, 135 and 68 paintings respectively [08, '12 & '16]
- Excelled in **Elementary and Intermediate Drawing Grade Examinations** with an **A Grade** [12 & 14]
- Secured **International Best Prize** at **UNICEF's Japan International Painting Competition** [14]
- Completed **3<sup>rd</sup> Year** in **Hindustani Classical Vocals** [13]
- Successfully completed one year of **Squash** under **National Sports Organization (NSO)** [17 - '18]
- Designed a **radio-controlled plane** tasked with performing difficult aerial maneuvers [17]