



Oshin
Metallurgical Engineering and Materials Science
Indian Institute of Technology Bombay

190110056
B.Tech.
Gender: Male
DOB: 13-01-2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	

SCHOLASTIC ACHIEVEMENTS

- Achieved an **AIR 3354** (98.61 percentile) in JEE Advanced among 2,40,000 qualified students (2019)
- Secured a percentile of **99.64%** in JEE Mains among 1.18 million aspirants in the nation (2019)
- Qualified both the prestigious **PRMO** and **NSEC** conducted by **HBCSE** AND **IAC** respectively. (2018)
- Accomplished a perfect **10 CGPA** in **Class 10** Central Board of Secondary Education Examinations. (2017)

WORK EXPERIENCE

TheRightDoctors | Business Development Intern (June 2021 - July 2021)
Initiative to upgrade India's medical practices | A Google Launchpad Digital Health StartUp

- Utilized **consultative selling** skills to identify **opportunities**, overcome **objections**, build relationships and converted cold-canvassing into **15+** qualified **leads**, adhering to deadlines & presenting individually created database
- Attended **8** operating meetings for reporting results of activities, within business growth team and the wider business
- Interacted and worked side-by-side with the **CEO** and other business professionals increasing communication network

KEY PROJECTS

Using ML To Predict Stock Price Movements, FinSearch (May 2021 - Ongoing)
Research Project: Finance Club, IIT Bombay

- Collaborated on a team of 4 to research **Time Series Forecasting**, its components and related terms like **Level**, **Trend**, **Seasonality** and **Moving Average**
- Mapped the theory and difference behind Time Series models like **AR**, **MA**, **ARIMA** and **GARCH**
- Further planning to implement the **GARCH** model in **Python** on the **Stock Prices** data

1-D Transient Conduction, Transport Phenomena (April 2021 - May 2021)
Course Project — Guide: Prof. Nurni N. Viswanathan, MEMS, IIT Bombay

- Studied the **implicit finite-difference** analysis and parted the test object in **6** nodes
- Obtained the **Tridiagonal Matrix** of **6*6** dimensions, which on solving gave temperatures at each node

Mopsters, Theory of Machine Design (March 2021 - April 2021)
Course Project — Guide: Prof. Shantanu Tripathi, Mechanical Engineering, IIT Bombay

- Lead a team of **4** to design a **CAD** prototype of an improved version of floor mop using **SOLIDWORKS**
- Conducted **STRESS ANALYSIS**, proved **OPERATIONAL RELIABILITY** and produced a **3 minute SALES PITCH** video on **YouTube** explaining the working procedure of the process with diagrams & applications

Impact of the Country of Origin on Consumer Behaviour (January 2021 - May 2021)
Course Project — Guide: Prof. Azizuddin Khan, Humanities and Social Science, IIT Bombay

- Computed the study on a sample size of **180+** people from different demographics
- Utilized the correlation between nations as weights to check the aligned behaviour of consumers.
- Achieved a result that showed **28%** reduction in buying depending on **COO** image if two countries had a war or a dispute

Plotting Predominance Diagram for Ni-S-O system, Thermodynamics (December 2020)
Course Project — Guide: Prof. Nurni N. Viswanathan, MEMS, IIT Bombay

- Deployed python libraries **NumPy**, **Math** and **Matplotlib** to plot **5** different regions of stability of the species in Nickel-Sulphur-Oxygen system at any temperature
- Appreciated by the instructor for nice work on the project and received highest grade for the same

POSITIONS OF RESPONSIBILITY

Head | Technical Council | Hostel 2, IIT Bombay

(April 2021 - Present)

Elected representative of **400+** hostel residents | Budget Assigned: **INR 50K**

Leadership and Management	<ul style="list-style-type: none">Represented Hostel 2 at meets of Institute Technical Club of IIT Bombay & Tech GCsManaged the Tech Room, updating it on timely basis as per hostelites' needsLead a team of 2 technical secretaries as the head of technical council & coordinated with various clubs to organize helpful workshops and sessions.
Initiatives	<ul style="list-style-type: none">Conducting technical webinars on various topics of students' benefit like GSOC, CATAiming to create a Washing machine Status Indicator to display real-time timers on the hostel web-site with the use of RPI cameras

Cultural Secretary | Hostel 2, IIT Bombay

(September 2020 - April 2021)

Responsible for fostering and maintaining *Dramatics Culture* in Hostel

- Acclaimed **top 5 place** in Radio Play GC, leading a cast of **12** speakers, while organizing rigorous practices
- Conducted the **Resume Making Workshop** attended by **100+** freshmen, inculcating the motivation for planning

Web Coordinator | Techfest, IIT Bombay

(June 2020 - September 2020)

Asia's Largest Science and Technology Festival — Footfall: **1,75,000+** — Events: **100+**

- Collaborated on a team in developing the frontend part of the **Mental Health Online Social Initiative Portal (HOPE)** catering to 5000+ students

TECHNICAL SKILLS

Programming	C, C++, Python, JavaScript, R, SQL
Softwares	AutoCad, Solidworks, LaTeX, Git, HTML, MATLAB, Zoho One

COURSES UNDERTAKEN

- Department Courses:** Thermodynamics of Materials, Structures of Materials, Mechanics Of Materials, Transport Phenomena, *Materials and technology, *Colloidal and Interfacial Science
- Mathematics and Statistics:** Calculus, Linear Algebra, Differential Equations, Data Analysis and Interpretation, Introduction to Numerical Analysis
- Miscellaneous:** Economics, Computer Programming and Utilisation, Quantum Physics and its Applications, Theory of Machines and Machine Design, Electrical and Electronic circuits
- Online:** *Udemy- Elliot Wave Principle, *Progate- Full Stack Web Development (Node.js) (*-pursuing)

EXTRACURRICULARS

Sports	<ul style="list-style-type: none">Bagged 2nd position in Cricmania, an institute level open cricket tournament amongst 8 teams (2020)Played Cricket General Championship for Hostel 2 reaching to the quarterfinals (2020)Successfully completed a yearlong of professional training in Cricket under National Sports Organisation(NSO) (2019)
Culturals	<ul style="list-style-type: none">Performed in Annual Radio Play General Championship, Dramatics Show with 1.5k+ audience (2020)Actively participated in Street-Play General Championship, achieving and holding the top 5 position (2019)