

## Scholastic Achievements

- Secured a position among **top 35 in India (National Top 0.08%)** to be awarded a gold medal for meritorious performance in the Indian National Chemistry Olympiad (INChO) [‘16]
- Qualified Indian National Junior Science Olympiad, **1 among 47 in India (National Top 0.1%)** [‘13]
- Secured an **All India Rank 74** in the KVPY fellowship exam for the SA stream [‘14]
- Awarded the **NTSE scholarship** by NCERT with an **AIR 225** among 5 lakh participants [‘12]
- Achieved **98.37 percentile** in JEE Advanced among 1.5 lakh participants [‘16]
- Attained an **All India Rank 681** in JEE Mains among 12 lakh participants [‘16]
- Secured a position among **17 Indian students** to be conferred the Merit Certificate for Class excellence by **Royal Australian Chemical Institute** in Australian National Chemistry Quiz [‘13]
- Excelled through the certified **Boot Camp for Finance** conducted by the UG Academic Council [‘18]
- Pursuing a course on Analog Circuits as a part of **Minor Degree in Electrical Engineering**

## Key Projects Undertaken

### **Phase Identification of Dual Phase Microstructure | Summer Project** [July’ 18]

*Guide: Prof. Anirban Patra, Metallurgical Engineering and Materials Science Department, IIT Bombay*

- Post processed the Electron Backscatter Diffraction (EBSD) Microstructure of dual phase carbon steel
- Constructed algorithm models for deducing Martensite and alpha-Ferrite phases of steel microstructure
- Implemented the modelled data to scientifically predict properties of material for various compositions

### **Efficiency Improvement of Perovskite Solar cells | Winter Project** [Sept’17]

*Guide: Prof. Aswani Yella, Metallurgical Engineering and Materials Science Department, IIT Bombay*

- Analysed the behaviour of Perovskite Solar Cells and attempted to improve the output power efficiency
- Envisaged over alternatives to substitute the traditional perovskite cell due to operational difficulties
- Used molecularly engineered porphyrin sensitizers to raise output efficiency of dye-sensitized solar cells

## Course Projects

### **Piezoelectric sensor application | Guide: Prof. Dipti Gupta | Materials & Technology** [Mar’17]

- Canvassed the major concepts of Piezoelectricity and applications of Piezoresistance in electronic sensors
- Prepared a presentation for class on the topic and explained the learnt concepts and drawn inferences

### **Rails in Railway systems | Guide: Prof. Aparna Singh | Mechanics of Materials** [Mar’18]

- Studied different components of rail, their functions, and the various stresses developed in the materials
- Presented the observations and concluded with discussion on multiple strategies for prolonging rail life

### **Book Review & Seminar discussion | Guide: Prof. Puja Padhi | Financial Economics** [Mar’18]

- Penned and presented a critical book review for the book ‘UNcommon Sense’ written by Michael Kemp
- Proffered a seminar on the paper of ‘OECD: SME Outlook’ to highlight different factors influencing SMEs

## Positions of Responsibility

**Head | Media & Public Relations | Student Alumni Relations Cell (SARC)** [Apr' 18 - Present]

*The body arching over the gap between 50,000+ Alumni and 10,000+ Students across space-time*

- Leading a two-tier **55+ membered team** that works in conjunction with Dean Alumni Corporate Relations
- Authoring the monthly newsletter of IIT-B, Knowledge Tree, with global outreach to **50,000+ IITB Alumni**
- Executing '**Know Your Alumni**' initiative to showcase the inspirational lives of IIT-B alumni via interviews
- Incepted '**Essence Capture**' in publicity strategy of Phonathon that effected **y-o-y 300% participation rise**
- Engineered **40+ cryptic puzzles** for SARCasm, a one-of-its-kind online crypt hunt for 2018 freshmen batch
- Capitalized a **quarter-over-quarter ascension of 300%** in social media outreach for platform of Facebook
- Envisaged the structure and penned more than 10 articles leading to a thriving revival of the **SARC Blog**
- Spearheading an aggressive expansion of SARC's social envelope over **Facebook, Twitter, and LinkedIn**

**Coordinator | Media & Public Relations | Student Alumni Relations Cell (SARC)** [Apr'17-Mar'18]

*The lead body meliorating Student-Alumni relations and plying the rich Alumni experience*

- Eventuated '**Muskaan**', the social initiative to provide **education for underprivileged children**
- Conceived the '**On This Day**' initiative aimed to highlight national, social, and environmental issues
- Actively organised and participated in 3 Phonathon events, reaching **5000+ Alumni** across the country
- Handled the **Mumbai and Madras zone of communication** on the day of Student Alumni Meet of 2017
- Planned and executed a **frank interview with the VP and Head of Supply Chain at Godrej Consumer Products Ltd**, Mr Saurabh Jhavar, an Alumnus of IIT Bombay

**Convenor | HAM Radio Club | IIT Bombay** [Apr'17-Mar'18]

*Amplifying the awareness of HAM Radio and improving the systems and device communications*

- Conceptualised the club **for aiding national disaster relief operations** using radio-based communication
- Established connections with 10+ HAM radio clubs and operators across India for collaboration
- Executed **Pratham satellite's ground station workshop** for 50+ students that represented 15+ colleges
- Organised multiple theory sessions and hands-on workshops on Satellite Tracking, Antenna Making, Slow Scan Televisions and Geosynchronous Satellites

## Extracurricular Activities

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| Extracurriculars    | Anchored as <b>Master of Ceremony</b> for Institute Lecture with 350+ audience strength<br>Completed yearlong keyboard course under <b>National Sports Organisation</b> Culturals   |
| Co-curriculars      | Qualified 1st round of Indian National Chemistry Olympiad ( <b>National Top 1%</b> ) in class 10<br>Devised a Bluetooth Controlled Car for XLR8 event and a Xyloband in freshman year<br>Stood <b>3<sup>rd</sup></b> in <b>Bazinga!</b> Physics Competition by Maths n Physics club in freshmen year<br>Secured <b>2<sup>nd</sup> place</b> in <b>VIT IGNITE</b> examination of 2014 conducted by VIT University<br>Participated for Web Development course organised by the Undergraduate Council<br>Awarded achievement certificates by <b>Bayer</b> (3 <sup>rd</sup> place, Making Science Make Sense, 2009-10), <b>Dell-Microsoft</b> (Study Buddy), <b>Axiom Education</b> (Iken ScientificA'08) |
| Camps and Workshops | Orientation-Cum-Selection Camp for the <b>International Junior Science Olympiad</b> in 2013<br><b>Nurturance Workshop on Scientific Inquiry</b> organised by IISER Pune and NCERT in 2013<br><b>International Chemistry Olympiad</b> for the Orientation-Cum-Selection Camp in 2016<br><b>Vijyoshi National Science Camp</b> by the INSPIRE Program of Department of Science and Technology along with IISER Kolkata in year 2015   |

## Technical Skills

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| Languages | C, C++, HTML, Python, MATLAB, Octave                            |
| Software  | AutoCAD, SolidWorks, Origin, Adobe Premier Pro, Adobe Photoshop |