

Pursuing a Dual Minor in **Biosciences & Bioengineering** and **Humanities & Social Sciences**

## INDUSTRY EXPERIENCE

**Firmenich Aromatics:** *Perfumery Intern | Technical Fragrance Development Manager* (May 2022 - July 2022)

- Explored **olfactive families & fragrance evaluation techniques** in the world's largest privately owned perfumery
- Conducted successful experiments on **HaloScent® Technology** for global bathing soaps & dish washing bars
- Attended & assisted in conducting the Hindustan Unilever Fragrance Workshop for an intricate olfactive experience

## PROJECTS

**Deep Learning in Synthetic Chemistry:** *Prof. Debabrata Maiti* (July 2022 - Present)

- Compared **Assisted Neural Networks** and **Graph Convolutional Neural Networks** to design a multivariate regression based predictor. It will anticipate an array of optimal conditions and catalysts for highest product yield
- Exploring **Palladium Catalyst Optimization** and its various parameters for synthesis of hetero coupling product

**Flow through Diverging Channel:** *Academic Project | Prof. Devang Khakhar* (January 2022 - April 2022)

- Generated a 2D finite mesh using **Gmsh** & simulated the flow using the **icoFoam Solver** on the **OpenFoam** software
- Analysed **boundary layer separation** due to the diverging channel & reverse pressure gradient at various flow rates

**Heat Transfer in Greenhouses:** *Academic Project | Prof. P. Sunthar* (January 2022 - April 2022)

- Proposed set up cost reduction by **38%**, minimal **diurnal variation effect** and farming of summer crops in winter

**Genetic Switch Design:** *Academic Project | Prof. Swati Patankar* (October 2021 - November 2021)

- Designed a potential drug for **vibrio cholerae** using genetic switch on off mechanisms and discussed pros and cons

**Nanomaterials:** *Summer of Science | Maths & Physics Club, IIT Bombay* (May 2021 - July 2021)

- Explored, surface effects, **superhydrophobicity**, **carbon nanostructures:** Nanotubes, Graphite & Graphenes

**Moodify:** *Seasons of Code | Web & Coding Club, IIT Bombay* (May 2021 - July 2021)

- Built a **web application** with a team of 13, with the aim of suggesting a suitable playlist based on the user's mood

## POSITIONS OF RESPONSIBILITY

**Department Alumni Secretary | Chemical Engineering Association | SARC** (July 2021 - July 2022)

- Founded the **Pan IIT event SARC Tank** and headed the ideation, implementation, organization and hosting
- Hosted a panel discussion with **5 eminent Alumni** from the 1996 ChemE batch who completed their Silver Jubilee

**Department Academic Mentor | Chemical Engineering Department | D-AMP** (July 2022 - Present)

- Academic mentor and guide for 6 sophomores & responsible for collecting internship, research & branch change blogs

**Mentor | Summer of Science | Maths & Physics Club** (July 2022 - Present)

- **Designed 2 month courses** for 6 students in Nanomaterials, Music Theory & Transcription and Engineering Drawing

## SCHOLASTIC ACHIEVEMENTS

- **AIR 6** in the ICSE  $X^{th}$  Board Examination and declared the **School Topper** of St. Mary's School, Pune (2018)
- Cleared the **Dr. Homi Bhabha Balvaidnyanik Examination** with **merit** out of **over 60000** candidates (2017)

## EXTRA CURRICULAR ACTIVITIES

Literature and Art	<ul style="list-style-type: none"><li>• <b>Best Female voice over</b> in the Radio Play Contest by Fourthwall Club, IIT Bombay (2021)</li><li>• <b>Lead Singer</b> in college band Shifted Sine &amp; performed in the Summer Bands Showcase (2021)</li><li>• Completed Rock &amp; Pop Vocals <b>Grade 7</b>, with merit certificate   <b>Trinity College London</b> (2020)</li><li>• Completed <b>Hindustani Classical Music Grade 6</b> with <b>1st class and Distinction</b> (2018)</li><li>• <b>2nd</b> in renowned Pune Inter School <b>English Debate</b> Rao Sahib T. K. <b>Kurup Trophy</b> (2017)</li><li>• Among the <b>top 5 Young Journalists</b> of Times NIE Newsmakers Challenge, Pune City (2017)</li><li>• Indian Classical <b>Bharatanatyam</b> Elementary Senior Diploma (<b>Grade 6</b>) with distinction (2014)</li></ul>
Leadership	<ul style="list-style-type: none"><li>• <b>Only student selected from 120+</b> for a 100% sponsored Workshop by <b>Shri Ananta Aspen Leadership School</b> for a 14 day long leadership and development training at Rishikesh (2017)</li><li>• <b>Council Member</b> of St. Mary's School: <b>House Prefect</b> and <b>Cultural Prefect</b> (2015, 2018)</li></ul>
Awards & Mentions	<ul style="list-style-type: none"><li>• Among the only <b>5 students</b> selected out of <b>over 1000 students</b> from Fergusson College, Pune to attend the <b>5 day Residential DST Inspire Internship Camp at IISER, Pune</b> (2018)</li><li>• Presented with the <b>Kishore Kumar Donge Rolling Trophy</b> for the Best All Rounder (2017)</li></ul>
Sports	<ul style="list-style-type: none"><li>• Awarded the <b>Orange Senior (Grade 6) belt</b> in Nobukawa Ha Shito-Ryu <b>Karate-Do</b> (2017)</li></ul>