



Aashwin Agrawal
Chemical Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
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Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	

Pursuing a minor degree in **Entrepreneurship** from Desai Sethi School of Entrepreneurship, IIT Bombay

SCHOLASTIC ACHIEVEMENTS

- Secured **99.90%ile** in JEE Mains exam with **100%ile** in math among **1.2 million** candidates [’19]
- Achieved **All India Rank 1460** in JEE Advanced exam out of **245,000** shortlisted candidates [’19]
- Secured **All India Rank 549** in Technothon, an International logic exam held by IIT Guwahati [’18]
- Secured **State Rank 3** in Madhya Pradesh talent recognition exam conducted by FIITJEE [’17]

KEY PROJECTS

School Mapping | Summer Undergraduate Research Project [Jun’ 21 - Present]

Guide : Prof. Milind Sohoni & Jitendra Shah, Department of CSE & CTARA, IIT Bombay

- Established static education theme for **Community GIS** portal using **django & leaflet** and developing interactive **query builder** for that website which will be community oriented and community driven
- Creating a platform for public domain databases for schools by exporting **1 million+** data of schools and analyzing that using **QGIS, SQL** and **python libraries** like numpy, pandas, matplotlib, seaborn, etc.
- Aiming to geocode **1 million+** schools using **Google API & OSM** and publish layers on **geoserver**

Heat Transfer in Clothing system | CL246 Course Project [Jan’ 21 - May’ 21]

Guide : Prof. P. Sunthar, Department of Chemical Engineering, IIT Bombay

- Obtained **optimal parameters** for a clothing such that it shows **minimum** variation in temperature with temperature changes in surroundings using **Computational Fluid Dynamics** on human body
- Led a team of **8** as a Generator and presented the idea and solutions to a class of **120+ students**

Van der Pol Equation Solver | CL244 Course Project [Dec’ 20]

Guide: Prof. Sarika Mehra, Department of Chemical Engineering, IIT Bombay

- Solved Van der Pol equation by **3rd order Runge Kutta & 3rd order Adams-moulton** algorithms
- Compared the two algorithms by varying the parameters to obtain an **optimal** solution in **MATLAB**
- Analyzed the stability & accuracy of the two algorithms w.r.t. **ODE45 & ODE23s** solvers on MATLAB

POSITIONS OF RESPONSIBILITY

Technical Councillor | Hostel 9, IIT Bombay [May’ 21 - Present]

Elected representative of **500+ hostel residents** in Institute Technical Committee

- Leading** the hostel technical council responsible for enhancing the overall technical culture of the hostel
- Structuring the allocation of a budget of **INR 50K** into GCs, tech room inventories and projects
- Aiming to initiate **H9 Season of Code** and **technical projects** to improve technical skills of residents
- Ideating** complaints forum, Art and Design portal and canteen order portal to make hostel life easier

Interview Coordinator | Placement Cell, IIT Bombay [Dec’ 20]

- Coordinated with a team of **250+ members** for interviews and tests of **1500+ students** for **5+ firms**

PROFESSIONAL EXPERIENCE

App Development, Technology Commercialization and Marketing Intern [Jun’ 21 - Jul’ 21]

Dass Scientific Research Labs Private Limited

- Created **2 applications**, for plotting mathematical graphs using **MATLAB APP designer**
- Performed **Pilot testing** of Contract Bridge game application and detected **bugs** during gameplay
- Designed marketing brochures, email sequences and authored website content to launch app into market

SKILLS AND EXTRA CURRICULARS

Technical	<ul style="list-style-type: none"> Python, C++, MATLAB, SQL, AutoCAD, Solidworks, QGIS, pgAdmin4, HTML, CSS Pursuing Python for Data Science and Machine Learning Bootcamp on Udemy
Sports	<ul style="list-style-type: none"> Participated as a Skating athlete in Gwalior got talent search-2014
Social	<ul style="list-style-type: none"> Participated in Gwalior mini Marathon, run for Smart City organized by SCBC Gwalior Visited Mayurbhanj to understand the functioning of NGO focused on Organic Farming
Cultural	<ul style="list-style-type: none"> Performed as Keyboardist in 5 events in school and learnt Violin as a part of NSO course