



**Aayush Sharma**  
**Chemical Engineering**  
**Indian Institute of Technology Bombay**

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**UG Third Year (B.Tech.)**  
**Male**  
**DOB: 21-12-1998**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2019	8.52
Intermediate/+2	Ram Krishna Vidya Mandir, Gwalior	Ram Krishna Vidya Mandir, Gwalior	2016	91.40
Matriculation	Kendriya Vidyalaya No.1 Gwalior	Kendriya Vidyalaya No.1 Gwalior	2014	10.00

### SCHOLASTIC ACHIEVEMENTS

- Secured **AIR 1336 (top 0.7%)** in JEE Advanced among **0.2 million** candidates [2016]
- Achieved **99.64** All India Percentile Score in JEE Mains among 1.5 million candidates [2016]
- Pursuing minor degree in Department of **Electrical Engineering** [2017]
- Received an **AA (perfect 10)** grade in 3 out of 8 Department Core Courses [2018]
- Attained **98.46** percentile in Quantitative Reasoning and **98.16** percentile in Qualitative Reasoning in Nationwide Problem Solving Assessment '13 conducted by CBSE [2014]

### KEY ACADEMIC PROJECTS & TRAINING

**Industrial Visit | Bharat Petroleum Corporation Limited, Chembur, Mumbai** [2017]

Guide: Dr. M.O.Garg, Department of Chemical Engineering, IIT Bombay

- Performed analysis on production of LPG & other value added products like gasoline, Kerosene
- Gained practical exposure to functioning of different **processing units** such as Crude Oil Distillation unit, Vacuum distillation unit, Isomerization unit, Fluid catalytic cracking (FCC) unit
- Visited plant control room to understand how process variables are controlled in a chemical plant

**Oscillating Motion | Course project | SolidWorks** [2016]

Guide: Prof. K.P. Karunakaran, Department of Mechanical Engineering, IIT Bombay

- Designed **3D Model** of an instrument performing Oscillating Motion using SolidWorks
- Acquired knowledge of advanced techniques used in SolidWorks involving simulation of the design

**Remote Control Model | Technical Project** [2016]

Technical competition conducted by Aeromodelling club, IIT Bombay

- Fabricated a **Remote Control Plane**; Learnt basics of flight, controls, stability and power control
- Dimensioned fuselage, stabilizers, wings and generated lift using Bernoulli's and Newton's Law

### INTERSHIPS

**EdulsFun Technologies | Content Development Internship** [May'18- July'18]

Designed contents of IIT-JEE mathematics for Edulsfun's Gamified Learning App having 5k+ downloads

- Employed **adaptive curriculum** based on 3 levels of difficulty from core to advance concepts of a topic
- Formulated content in form of a quest for treasure while mastery is achieved by completing various levels

### WORKSHOPS

**Finance Boot Camp | UG Academic Council, IIT Bombay** [2018]

- Attended 5 day long **Finance Boot camp** conducted by Finance Club
- Learnt basics of stock market, mutual funds, spot-future parity, bond markets etc.

### COURSES UNDERTAKEN

<b>Core Courses</b>	Transport Phenomena, Thermodynamics, Process Fluid Mechanics, Heat Transfer, Mass Transfer*, Solid Mechanics*, Chemical Reactions Engineering*
<b>Mathematics</b>	Numerical Analysis, Calculus, Linear Algebra, Differential Equations, Data Analysis
<b>Others</b>	Computer Programming and Utilization, Quantum Physics, Basics of electricity and magnetism, Biology, Engineering Graphics and Drawing, Analog Circuits, Sociology, Economics, Introduction to Electrical & Electronic Circuits*, Digital Electronics*

\*To be completed by November 2018

## POSITIONS OF RESPONSIBILITY

**Core Team Member, Hostel & Department Affairs** | Student Alumni Relations Cell [Apr'18-Present]

*Leading 2-tier team of 22 Hostel and Department Alumni Secretaries; part of 15-membered core team*

- Organised and oversaw Phonathon, the telephonic marathon connecting students and alumni, which witnessed increment in alumni engagement by **200%** y-o-y and volunteers by **111%** y-o-y
- Engineered work flow of calling and updating database of **10000+** alumni with **18 parameters** involved
- Spearheading execution of **Mock Interviews & GDs** led by **100+** Alumni to aid **300+** graduating students
- Revamping **Hostel Alumni Team Stewardship (HATS)**, an alumni led initiative with target to provide financial support of approx **INR 5 million** to 10 hostels from the Alma mater
- Supervising **20 Core Talks** by alumni spanning over 10 Departments targeting over **500+** students
- **Key Initiatives:**
  - Planning to organise additional **10 Reunions** to reach out **2k+** alumni as a part of IITB **Diamond Jubilee**
  - Introducing **Internships** in addition to work from home projects under **Industrial Learning Program**

**Department Alumni Secretary** | Chemical Engineering Association (ChEA) [Apr'17-Mar'18]

*Part of a 22 membered team of all Hostel and Department Alumni secretaries*

- Organised **Placement Mentoring Programme** for benefitting **50+** Final year students for their Placements
- Orchestrated series of **Core Talks** by alumni in the core industries benefitting **70+** final year students
- Procured **20+projects** by contacting alumni hence provided opportunities to **100+students** as a part of **ILP**
- Strengthened & managed alumni database while being the sole point of contact for chemical department

**Coordinator, Ozone (Events)** | Techfest, IIT Bombay [Mar'17- Jan'18]

*Led a team of 15+ organisers for execution of various events in the fest*

- Managed infrastructure for performances of **international artists** and gaming set-ups during the fest
- Ideated and executed overall publicity schedules and detailed logistical requirements for the entire event
- Networked with multiple **gaming giants** and entertainment companies to incorporate them in fest

## SOFTWARE SKILLS

**Programming Languages:** C, C++

**Software:** AutoCAD, SolidWorks, MATLAB

## EXTRA CURRICULARS

AWARDS	• Awarded ' <b>Rajya Puraskar</b> ' in Scouting by honorable State Secretary and Chief Commissioner of Madhya Pradesh	[ '13]
	• <b>Best Bowler</b> of the tournament in Freshmen Cricket League 2017, Cricket Club, IITB	
	• Awarded as ' <b>Gwalior Gaurav</b> ' by the Gwalior Vikas Samiti M.P. Gwalior	[ '16]
	• Secured <b>3<sup>rd</sup> Position</b> in Freshmen <b>Business Model Competition</b> by E-cell, IIT Bombay	[ '17]
SPORTS	• Secured <b>1st position</b> in <b>Cricmania</b> :Institute cricket league organized by Cricket Club, IITB	[ '17]
	• Secured <b>second position</b> in <b>Freshmen Cricket League</b>	[ '17]
	• Undergone a yearlong training in <b>Cricket</b> under National Sports Organization( <b>NSO</b> )	[ '16]
	• Represented Hostel-4 in Cricket General Championship for two successive years	
	• Played <b>Under-16 Cricket Tournament</b> under Gwalior Division Cricket Association	
CULTURAL	• Engineered a short movie in Freshizza organized by Cultural Council, IIT Bombay	[ '16]
	• <b>Written</b> story of short film 'Sangarsh' in inter-hostel Sophie Film Competition	
	• Professionally trained in acting as a part of <b>Cult School of Dramatics</b> , Cultural Council	[ '16]
MISC.	• Completed 5 year of School scouting and Represented K.V. No. 1, Gwalior in Various National and state level of scouting Camps	
	• Participated in Intra-Regional Level of <b>21<sup>st</sup> National Children's Science Congress</b>	[ '13]
	• Conducted <b>CURED</b> -a nationwide diabetes awareness campaign for 500+ volunteers	[ '16]
	• Participated in SHE, a menstrual cycle awareness campaign	[ '17]
	• Volunteered for cleanup project at Versova beach organized by Abhyuday	[ '18]