



**Prakhar Agarwal**  
**Mechanical Engineering**  
**Indian Institute of Technology Bombay**

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**B.Tech.**  
**Gender: Male**  
**DOB: 05/04/2003**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2025	9.21

Pursuing a **Minor in Data Science and Artificial Intelligence** at **C-MInDS**, IIT Bombay

## SCHOLASTIC ACHIEVEMENTS

- Awarded Branch Change to Mech Engg. (**39** out of **1400+** freshmen) for an excellent academic performance (2022)
- Secured Department Rank **15** among **200+** undergraduates in the department of Mechanical Engineering. (2022)
- Among top **1** percentile in **JEE Advanced 2021** examination out of **2,50,000** candidates all over India (2021)
- Secured **99.61** percentile in **JEE Main 2021** exam out of **1.1 million** eligible candidates all over India (2021)

## KEY PROJECTS

**Automating 2048 game using Reinforcement Learning** (Dec' 22 - Present)

*Winter in Data Science(WiDS), Analytics Club*

- Implementation of Machine Learning Models with **Convolutional Neural Network (CNN)** to train the model
- Using Supervised Learning, **Deep Reinforcement Learning Models** and various python libraries for implementation

**Data Analysis of Indian Premiere League** (Aug' 2022)

*Course Project : DS 203 | Prof. Amit Sethi*

- Performed extensive Exploratory Data Analysis of Indian Premiere League using two different datasets
- Used various libraries like **Seaborn** and **Matplotlib** to create meaningful charts and graphs to communicate findings

**Student Wellness Center Portal** (Jun' 22 - Sep' 22)

*An EMR software for creating and managing appointments for students and counsellors*

- Implemented **Angular Material UI** and used its various elements for a much easier and more profound user experience
- Utilized **Django REST API** to get methods like **POST**, **PUT** and **GET** to add, change, or receive data from the database

**Web Development Projects** (Aug' 22 - Dec' 22)

*Web Team | Institute Technical Council*

- Created a portal for the Freshers' Technical Orientation 2023 using **ReactJS** and ExpressJS. Successfully connected the frontend to Google Sheets to show the data received, using the various functions of **Axios**
- Developed the AddBill page of the **Bill Reimbursement Portal** and used **React** hooks to implement required features

**Space Vader Game** (Apr' 21)

*A shooting game built in python*

- Created an interactive action game, including multiple different game modes using the **Pygame** library
- Implemented the major concepts in python like **Object Oriented Programming**, Iterations and **os library**

## POSITIONS OF RESPONSIBILITY

**Web Convener | Institute Technical Council** (Jun' 22 - Present)

*The Council responsible for overseeing all technical activities at the institute*

- Part of a 6-member team responsible for developing and maintaining **websites** of ITC's clubs and teams
- Developed websites for events like **Tech RnD Expo** using **ReactJS** for frontend to display information about the events
- Represented the Web Team in front of **200+** PG freshers in the PG Orientation program explaining our team's role

## TECHNICAL PROFICIENCY

- Languages & Skills:** C++ | Python | Java | HTML | CSS | JavaScript | Git | Bootstrap 5.2 | L<sup>A</sup>T<sub>E</sub>X
- Frameworks & Libraries:** Angular | Django | ReactJS | Numpy | Pandas | Scipy | Tensorflow

## EXTRACURRICULARS

- Procured **AIR 13** in **Techkriti Open School Championship** conducted by Techkriti, IIT Kanpur (2018)
- Successfully completed a week long Data Science Boot Camp conducted by the Analytics Club (2022)
- Attended a 2 hour long Blockchain Workshop conducted by the Web and Coding Club (2022)
- Finished a **12+** hours course on Python programming basics including various libraries like os (2021)
- Completed year-long training in **Badminton** under the National Sports Organisation (2022)
- Secured **17th** rank among **200+** participants in the **15** kilometer long Marathon event (2018)