

Aditya Rajesh Agrawal Mechanical Engineering Indian Institute of Technology Bombay 200100015 B.Tech. Gender: Male

DOB: 4/6/2002

Examination	University	Institute	Year CPI / %
Graduation	IIT Bombay	IIT Bombay	2024

SCHOLASTIC ACHIEVEMENTS

• Secured **99.4 percentile** in **JEE Advanced** Examination out of **0.15 million**+ aspirants ('20)

• Secured **99.91 percentile** in **JEE Mains** Examination out of **1.2 million**+ aspirants ('20)

• Received **AA grade** for good performance in **Solid Mechanics** Course and **Manufacturing lab** ('21-'22)

POSITIONS OF RESPONSIBILITY

Design Secretary | *MEA - Mechanical Engineering Association*

(May '22- present)

- Responsible for **designing creative graphics** for MEA social media handles to improve participation
- Coordinated with the chief editors and saw a 14% follower increase on MEA Instagram handle in 2 months
- Assisting in conducting department initiatives & events like Mech- Monday, Mechanza, Weekly quizzes

Teaching Assistant (Mar '22- Jun '22)

ME 119 (Engineering Graphics & Drawing) - Course compulsory for all the 1st year students

- Proctored 15+ students during lab sessions and acted as a bridge to solve students' doubts and issues
- Implemented **AutoCAD** skills to deliver solutions to student lab problems catering to **160**+ students

KEY PROJECTS

Stock Market Prediction Using Arima Model | Seasons of Code | Web and Coding Club (May '2

(May '22- present)

Collected data from Yahoo Finance to build a machine learning model that predicts the stock market prices

- Developed understanding of fundamentals of an ARIMA model, Time Series Analysis, and Data Cleaning
- Experimented with the order values and applied Auto-Arima to obtain best fit order for ARIMA model
- Implemented an AD Fuller test to check stationarity of data and removed it using first-order differencing
- Performed Exploratory Data Analysis using Numpy, Pandas, and Matplotlib to extract data insights

Computer Vision | Maths and Physics Club

(May '22-present)

Reading project as a part of the Summer of Science Programme

- Explored concepts like Linear Regression, Classification, SVM, Decision Tree, and Ensemble Learning
- Researched about CNN algorithm and its applications in image processing and classification domain

Bulldozer Price Prediction | Self Project

(Jun '22-Jul '22)

Built a machine learning model to predict the price for bulldozers based on Kaggle dataset with 18 million+ entries

- Converted categorical values into numerical values using Pandas categorical codes
- Implemented RandomizedSearchCV to find the best hyperparameters for Random Forest Regressor model
- Achieved an R Squared score of 90% on validation data and 72% on the final predicted values

Plastic Toy Manufacturing | Course Project

(Apr '22-May '22)

ME-206 Manufacturing Process 1/ Prof. Rakesh G. Mote

- Worked in a team of 4 to develop an extensive research report on how Plastic toys are manufactured
- Explored various aspects of toy manufacturing such as design, material selection, processing, product inspection

Verification of Superposition and Reciprocal Theorem | Course Project

(Mar '22 - Apr '22)

M-218 Solid Mechanics Lab | Prof. Krishna N. Jonnalagadda

- Worked in a team of 4 and experimentally verified the Reciprocal and Superposition Theorem
- Understood and Used a dial gauge to read and measure deflections of beam due to corresponding load

EXTRACURRICULAR ACTIVITIES

- Acquired over 3.5 million video views and 11000+ subscribers on my YouTube channel [name- Aditya Here]
- Honoured as the **best editor** for editing Hostel 9 music video in filmmaking GC organized by SilverScreen ('22)
- Edited logo reveal video of the Annual Insync Dance Competition that got more than 22.4k Instagram views
- Awarded as **Best Emerging Player** from **100**+ participants in Amalner Premiere League Cricket ('22)
- Awarded as **best trainee** among **40**+ players at cricket camp organized by Jain Irrigation Systems, Jalgaon ('16)