

Maheesh Baijal Metallurgical Engineering and Materials Science Indian Institute of Technology, Bombay 190110042 B.Tech. Gender: Male

DOB: 20-08-2001

Examination	University	Institute	Year CPI / %
Graduation	IIT Bombay	IIT Bombay	2023

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

	SCHOLASTIC ACHIEVEMENTS	
•	Ranked 2 nd among 93 B.Tech students in the Department of Metallurgical Engineering and Materials Science	[2021]
•	Recipient of the renowned Uttar Pradesh Science Talent Search Examination Scholarship (UPSTSE)	[2017-18]
•	Secured an SPI (Semester Performance Index) of 9.84 in the third semester with AA grade in 5 courses	[2020]

POSITIONS OF RESPONSIBILITY

> Academic Mentor | Department Academic Mentorship Program | IIT Bombay

Part of the Student Mentorship Program assisting 150+ students academically

[May 2021-Present]

[2019]

Selected from among 74 applicants on the basis of SOP, rigorous interviews, social behavior and peer reviews

Awarded an AP grade for exceptional performance in the course MM152: Materials and Technology

- Mentoring a batch of 6 sophomores catering to their academic needs and helping them attain overall stability
- Collaborating with seniors and other department bodies to organize help sessions and lab visits for the students

> Data Analytics And Visualisation Team Member | Undergraduate Academic Council | IIT Bombay

Part of IIT Bombay's official body working in the field of Data Science

[Jul 2021-Present]

- Selected out of 70+ applicants based on a rigorous assignment and an interview on technical skills and teamwork
- Part of a team of 13 responsible for analysing the data provided by the institute, deriving valuable insights from it and presenting them to the student community in a comprehensive manner

KEY PROJECTS

➤ Impact of Covid-19 on consumer behaviour | Course Project | Consumer Psychology

[Apr-May 2021]

- Extensively explored available literature on the topic, compiled relevant news reports and surveyed 70+ youth (target group)
- Compared the behaviour of respondents before and after the Covid-19 lockdown through paired t-test analysis
- Derived managerial and research implications based on the results, prepared a report and obtained highest marks for the same

➤ Loan approval system using ML | Course Project | Programming for Data Science

[Dec 2020

- Using numpy, pandas, matplotlib libraries in Python, performed exploratory data analysis on the loan approval data of a bank
- Trained different classification models like Random Forest classifier, Decision Trees and Logistic Regression on the data
- Achieved a maximum **F1 score** of **0.898** on the validation dataset using the Decision Trees classification model

> Credit card fraud detection | Course Project | Introduction to Machine Learning

[Apr-May 2021]

- Performed exploratory analysis on European credit card transactions dataset to identify critical features of fraud transactions
- Trained SVM, Adaboost, Random Forest, MLP Classifier and Logistic regression classification models on the data
- Achieved a maximum **F1 score** of **0.9987** on the test dataset using the MLP Classifier model

➤ Mopster: A novel design for floor mop | Course Project | Theory of Machines and Machine Design

[Mar-Apr 2021]

- Teamed up in 4 to design a CAD prototype of a highly efficient floor mop from scratch using SOLIDWORKS software
- Our mop could potentially halve the time taken by regular mops to clean the floor and thus minimize the effort required
- Performed stress analysis, proved operational reliability and prepared a YouTube video as sales pitch for our mop

> Using ML to predict stock price movements | Research Project | Finance Club, IIT Bombay

[Jun-Jul 2021]

- Collaborated in a team of 4 to study time series forecasting, its components and other technical terms related to it
- Deliberated upon the theory and implementation of AR, ARIMA and LSTM models widely used for time series forecasting

➤ Modelling iron ore reduction reactor using OpenFOAM | Summer Research Project

[Jun-Jul 2021]

- Studied about the reactions involved and the flow of components in the Midrex process of direct reduction of iron ore
- Familiarised with the functions in OpenFOAM, an open-source Computational Fluid Dynamics tool based on C++

EXTRA CURRICULARS

- Part of the team that stood 9th among 100+ teams in the RC Plane Competition organized by Aeromodelling Club, IIT B
- Professionally trained in squash for 1 year under the National Sports Organization Program, IIT Bombay
- Secured 4th position in squash at Freshiesta 2019, the annual sports event for freshmen
- Part of the team that stood first in the intra-hostel cricket tournament of Hostel 2, IIT Bombay