



Dhairya Jain
Economics
Indian Institute of Technology Bombay

18B080006
UG Second Year
Male
DOB: 18/03/2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2020	8.48
Intermediate/+2	CBSE	SKS International School	2018	91.40
Matriculation	CBSE	St. Norbert Senior Secondary School	2016	10.00

SCHOLASTIC ACHIEVEMENTS

- Pursuing a **Minor** degree in **Industrial Engineering and Operations Research** *(Present)*
- Presently holding **Department Rank 6** in Department of Humanities and Social Sciences *(Present)*
- Secured **All India Rank - 1209** in JEE Mains among over **1.1 million** candidates *(2018)*
- Achieved **All India Rank - 1886** in JEE Advanced among over **0.15 million** candidates *(2018)*

KEY PROJECTS

Sectoral & Overall Inflation Rates in India | Macroeconomics | Course Project *(Nov' 2019)*
Prof. Pushpa Trivedi, Dept. of Humanities and Social Sciences, IIT Bombay

- Extracted inflation data from raw GDP data (RBI) by using techniques like **CPI Inflation & GDP Deflator**
- Traced back the effects of major world events like housing price crisis and oil shocks on inflation rate in India
- Explained the fate of inflation rate in demonetization period using **Fisher's Monetary Exchange equation**

Time Series Analysis | Statistics I Course Project *(Sept' 2019)*
Prof. Puja Padhi, Humanities and Social Sciences, IIT Bombay

- Mined and analysed **1 year** stock data of **WIPRO** Limited to predict future stock market variables.
- Applied **financial modelling techniques** to calculate Skewness and Kurtosis of the distribution based upon 180+ daily return values of equity data to perform Jarque-Bera test and comment about its normality
- Predicted the next closing prices and returns of the company using **Exponential Smoothing techniques** and **moving averages** in **Python** and compared the accuracy of the two methods in **time-series analysis**

Machine Learning, Neural Networks and Deep Learning | Online Courses | Coursera.com

- Successfully completed all the lectures and assignments for the two courses by Prof. Andrew N.G., Stanford University namely **Machine Learning** and **Neural Networks and Deep Learning (in Python)**
- Learnt the use of various **analytical techniques** used in **Image Processing** and **Artificial Neural Networks (RNN and CNN)** and trained a model on **song recommendation system** using Spotify dataset
- Mimicked the machine learning assignments in Python using libraries like **Keras, Scikit-learn and Matplotlib**

Simulation Models | Discrete Event System Simulation | Course Project *(Oct' 2019)*
Prof. Mallikarjuna K. Rao & Prof. Jayendra Venkateswaran, IEOR, IIT Bombay

- Simulated a **Bank-Teller model** in **AnyLogic** and analysed the output data for getting various results
- Learned how to simulate real-life situations by proper application of **Input and Output Data Analysis**

Alumination 2019 | Student Alumni Relations Cell | IIT Bombay *(Apr' 2019 - Oct' 2019)*

- Ideated and developed, in a team of 3, a **dynamic and interactive website** for ALUMINATION 2019, annual meet up of students and alumni, who gather together and exchange ideas and share experiences
- Executed processes for development of **backend applications** and **server systems** of Alumination 2019

WORK EXPERIENCE

Economizer | Market Research and Tech Intern *(Dec' 2019 - Jan' 2020)*

- Studied the **revenue models** and traced the product-relevant **RBI** and **SEBI** regulatory guidelines by analysing the case studies of **PayTM** and **Netflix** which were very crucial to the working of product
- Used **Ajax** to **dynamically** fetch data from Google Sheets using Google Sheets API and put it on a website
- Proposed a prototype and algorithm using **Machine Learning Techniques** like **PCA** and **Decision Tree Regression**, which may be used to model a person's financial behaviour which forms the heart of the product