



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 POSITIONS OF RESPONSIBILITY

Sectoral & Overall Inflation Rates in India | Macroeconomics | Course Project (Nov' 2019)
Coordinator | Web | Student Alumni Relations Cell (SARC) (Apr' 2019 - Present)
 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
- Traced the Web portfolio responsible for maintaining various websites and portals of SARC
- Explained the rate of inflation rate in demonetization period using **Fisher's Monetary Exchange equation**
- Using **Jquery** and **CSS** and added various other features to increase reach of SARC among 4k+ students

Time Series Analysis | Statistics I Course Project (Sept' 2019)
 Organised the UPSC Success Talk of 2018's AIR 1 and AIR 4 to help students preparing for UPSC
 Prof. Pooja Padhi, Humanities and Social Sciences, IIT Bombay

- Interacted with 200+ alumni during 31st Phonathon, the annual telephonic marathon in IIT Bombay, which saw a rise in the number of volunteers by 111%, with an increase in alumni contacting by about 300%
- 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 **Coordinator** Horizons equi-modal lognormal IIT Bombay test and comment about its normality

Apr's Largest College Cultural Festival | 1,43,000+ footfall | 230+ events
 Predicted the flex closing prices and returns of the company using **Exponential Smoothing techniques**

- **moving averages** and **Python** and compared the accuracy of the two methods in **time series analysis**
- Invited dance crews and artists from 4 countries to exhibit international performances at Mood Indigo

Machine Learning, Neural Networks and Deep Learning | On-Dice Courses | Coursera.com
 Successfully completed all the lectures and assignments for the two courses by Prof. Andrew NG, Stanford

- Navigated through **Machine Learning** and **Neural Networks and Deep Learning (in Python)**
- Learnt the use of various **analytical techniques** used in **Image Processing** and **Artificial Neural Net-**

WORK EXPERIENCE
 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**

Economizer | Market Research and Tech Intern (Dec' 2019 - Jan' 2020)
Simulation Models | Discrete Event System Simulation | Course Project (Oct' 2019)

- Studied **all the revenue models** and traced the product-relevant **RBI** and **SEBI** regulatory guidelines by
- Analysing the **Bank Teller model** and **PayTM** and **Netflix** which were very crucial to the working of products
- Used **Ajax** to **dynamically** fetch data from Google Sheets using Google Sheets API and put it on a website

Alumination 2019 | Student Alumni Relations Cell | IIT Bombay (Apr' 2019 - Oct' 2019)
Regression, which may be used to model a person's financial behaviour which forms the heart of the product

- 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

KEY PROJECTS

- Executed processes for development of **backend applications** and **server systems** of Alumination 2019

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

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

- Traced back the effects of major world events like housing price crisis and oil shocks on inflation rate in India
- Studied the **revenue models** and traced the product-relevant **RBI** and **SEBI** regulatory guidelines by
- Explained the rate of inflation rate in demonetization period using **Fisher's Monetary Exchange equation**
- Analysing the case studies of **PayTM** and **Netflix** which were very crucial to the working of products
- 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