Dhairya Jain   18B080006

Economics   **UG Second Year**

Indian Institute of Technology Bombay   **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)*

POSITIONS OF RESPONSIBILITY

Coordinator | Web | Student Alumni Relations Cell (SARC) *(Apr' 2019 - Present)*

- Part of a 60 membered student team responsible for fostering relations between 50k alumni and students
- Part of the Web portfolio, responsible for maintaining various websites and portals of SARC
- Architected **SARCasm** portal, an institute online crypt hunt, using **Django** backend and implemented UI/UX using **Jquery** and **CSS** and added various other features to increase reach of SARC among 4k+ students
- Organised the UPSC Success Talk of 2018's AIR 1 and AIR 4 to help students preparing for UPSC
- 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%

Coordinator | Horizons | Mood indigo, IIT Bombay *(Apr' 2019 - Dec' 2019)*

Asia's Largest College Cultural Festival | 1,43,000+ footfall | 230+ events

- Invited **dance crews** and artists from **4** countries to exhibit international performances at Mood indigo'19
- Spearheaded a team of **15+** organizers to execute a wide variety of events in Dancefest
- Worked in a team of 7 to Ideate and structure Dancefest , the **flagship event** of Mood indigo 2019.
- Negotiated with renowned Indian dance crews to showcase **5+** events in Dancefest

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

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 Skweness 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
- Mimiced 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

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, Java script
- **Web Development:** HTML, CSS, JQuery, Django, REST API, AJAX
- **Softwares:** AutoCAD, SolidWorks, MS-Excel, AnyLogic, MATLAB/Octave, Git
- **Miscellaneous:** Data Analysis, Machine Learning, Neural Networks, Deep Learning

RELEVANT COURSES UNDERTAKEN

Core Courses	Other Courses
Intermediate Microeconomics I & II* Intermediate Macroeconomics I & II* Statistics I & II* Mathematics For Economics Money and Banking* Professional Ethics* Sociology	Probabilistic Models (Minor)* Machine Learning for Remote Sensing I* Discrete Event System Simulation (Minor) Computer Programming (C++) Calculus Linear Algebra & Differential Equations Quantum Physics and application

* courses to be completed by Apr' 2020

EXTRACURRICULAR ACTIVITIES

Cultural	Successfully completed a year-long training in **KeyBoard** under **NSO Culturals**	*(2018)*
	Part of the music band that bagged 3rd position in **Music Arcade**	*(2019)*
	Represented hostel 4 in **Streetplay Arcade** and secured 1st position in the competition	*(2018)*
Sports	Part of the winning team of Crossy General Championship on behalf of Hostel 4	*(2018)*
Miscellaneous	Completed a **15km** long trek at Matheran at an altitude of **2625 feet** above sea level	*(2019)*
	Attended a comprehensive workshop on **Data Analysis** during Alumination 2019	*(Oct' 2019)*
	Attended a conference on **Financial Security** at SEBI, Mumbai	*(Prof. Pushpa Trivedi)*