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	0.00
Intermediate/+2	CBSE	SKS International School	2018	91.40
Matriculation	CBSE	St. Norbert Senior Secondary School	2016	10.00

SCHOLASTIC ACHIEVEMENTS

- 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)*
- Currently pursuing a **Minor** degree in **Industrial Engineering and Operations Research** .... *(present)*

KEY PROJECTS

Air Quality Management | ES200 Course Project *(Aug' 2019)*
Prof. Virendra Sethi, Centre for Environmental Science and Engineering, IIT Bombay

- Formulated an **action plan** for Indore using a scientific study to improve air quality in the future metro city
- Analysed historical trends of the city in the concentration levels of various air pollutants like NO_2 , SO_2, PM_{10} using meteorological data, **gaussian plume model** and observing the season wise wind roses
- Identified key sources of pollution and compared present concentrations of six criteria air pollutants with $NAAQS$ (National Ambient Air Quality Standards)
- Estimated the number of artificial **Trees** per person required to suffice human oxygen requirements

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 upen 180+ daily return values of equity data to perform **Jarque-Bera test** and comment about its normality
- Plotted time series data and predicted **Closing Prices** and **Returns** of the company using **Exponential Smoothing Techniques** and unweighted **Moving Averages** in **MS Excel** and **Python**
- Used **Window Sliding** algorithm to optimize the python function that calculates the moving averages

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

- Ideated and developed, in a team of 3, 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

Blog-Clone | Self-Projects

- Built clone of a **Blogging website** that allows registered users to publish blogs on their timeline
- Enhanced appeal and responsiveness by incorporating **Bootstrap 4**, on a website laid on **Django** framework
- Programmed using **smtplib** llibrary to send a confirmation mail to every new user on a successful registration

Tic-Tac-Toe | Self-Projects

- Designed the interface of the game using graphic based UI/UX development tool **QtCreator**
- Coded and developed the logic of the game using object oriented programming in Python
- Implemented a similar tictactoe game in a web-based enviornment using JQuery and Bootstrap

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
- Architected **SARCasm** portal, an institute online crypt hunt, using **Django** framework, and implemented UI/UX using **Jquery** and **CSS** to increase reach of SARC among **4k+** students
- Part of the Web portfolio, responsible for maintaining various websites and portals of SARC
- Organised the UPSC Success Talk of 2018's AIR 1 and AIR 4 to help students preparing for UPSC
- Interacted with 200+ alumni out of the 12000+ alumni contacted 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 - Present)*
Asia's Largest College Cultural Festival | 1,43,000+ footfall | 230+ events

- Inviting **dance crews** and artists from **4** countries to exhibit international performances at Mood Indigo'19
- Spearheading a team of **15+** organizers to execute a wide variety of events in Dancefest
- Working in a team of 7 to ideate and structure Dancefest , the **flagship event** of Mood Indigo 2019.
- Negotiating with renowned Indian dance crews to showcase **5+** events in Dancefest

TECHNICAL SKILLS ─────────────────────

- **Programming:** C/C++, Python
- **Web Development:** HTML, CSS, Javascript, Django
- **Software:** AutoCAD, SolidWorks, Git, MS-Excel
- **Skills and Interests:** Data Analysis, Machine Learning

RELEVANT COURSES UNDERTAKEN ─────────────────────

Core Courses	Other Courses
Introduction to Economics Intermediate Microeconomics I* Intermediate Macroeconomics I* Statistics I* Mathematics For Economics* Sociology*	Discrete Event System Simulation* (Minor) Computer Programming (C++) Quantum Physics and application Basics of Electricity and Magnetism Engineering Graphics and Drawing Calculus Linear Algebra Differential Equations

* courses to be completed by Nov' 2019

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 Champianship 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 lecture on **Financial Security** at SEBI, Mumbai	*(Prof. Pushpa Trivedi)*