**Dhairya Jain** **18B080006**

**Economics** **UG Second Year**

**Indian Institute of Technology Bombay** **Male**

**DOB: 18/03/2001**

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| --- | --- | --- | --- | --- |
| **Examination** | **University** | **Institute** | **Year** | **CPI / %** |
|  |  |  |  |  |
| Graduation | IIT Bombay | IIT Bombay | 2020 | 7.81 |
| Intermediate/+2 | CBSE | SKS International School | 2018 | 91.40 |
| Matriculation | CBSE | St. Norbert Senior Secondary School | 2016 | 10.00 |
|  |  |  |  |  |

Scholastic Achievements

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| --- | --- | --- |
|  | Presently holding Department Rank 7 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 j ES200 Course Project (Aug’ 2019)

Prof. Virendra Sethi, Centre for Environmental Science and Engineering, IIT Bombay

Formulated an action plan for Indore using a scienti c 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 NO2 , SO2, P M10

using meteorological data, gaussian plume model and observing the season wise wind roses

Identi ed key sources of pollution and compared present concentrations of six criteria air pollutants with NAAQS (National Ambient Air Quality Standards)

Estimated the number of arti cial Trees per person required to su ce human oxygen requirements

Time Series Analysis j 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 nancial 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 j Student Alumni Relations Cell j 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 j 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 con rmation mail to every new user on a successful registration

Tic-Tac-Toe j 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 j Web j 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 j Horizons j Mood Indigo, IIT Bombay

Asia’s Largest College Cultural Festival j 1,43,000+ footfall j 230+ events

(Apr’ 2019 - Present)

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 agship 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 | |  | Discrete Event System Simulation\* (Minor) | | |  |  |  |
|  |  | Computer Programming (C++) | |  |  |  |  |
|  | Intermediate Microeconomics I\* | |  |  |  |  |  |
|  |  | Quantum Physics and application | |  |  |  |  |
|  | Intermediate Macroeconomics I\* | |  |  |  |  |  |
|  |  | Basics of Electricity and Magnetism | |  |  |  |  |
|  | Statistics I\* |  |  |  |  |  |  |
|  |  |  | Engineering Graphics and Drawing | |  |  |  |  |
|  | Mathematics For Economics\* | |  |  |  |  |  |
|  |  | Calculus | |  |  |  |  |
|  | Sociology\* |  |  |  |  |  |  |
|  |  |  | Linear Algebra | |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  | Di erential Equations | |  |  |  |  |
|  |  |  |  |  |  | | |  |  |
|  |  |  |  |  | \* courses to be completed by Nov’ 2019 | | | | |
| Extracurricular Activities | | | |  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  | Successfully completed a year-long training in KeyBoard under NSO Culturals | | | | | (2018) | | |
|  |  |
|  | Cultural | 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) | | | |
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