

Pursuing a **Minor** in **Industrial Engineering and Operations Research** and **Honors in Economics**

TECHNICAL SKILLS

Python, C/C++, Java, Shell Script, Android, Git, Docker, Django, TypeScript, Angular, ReactJs, AJAX
Statistical and Time-Series Analysis, Data Analysis and Visualization, Machine Learning and Deep Learning,
Quantitative Trading using python-based frameworks like **Backtrader, RDBMS - MySQL, RESTful APIs**

POSITIONS OF RESPONSIBILITY AND WORK EXPERIENCE

Core Team Member | Web | Student Alumni Relations Cell (SARC) (May 2020 - Present)

Leading the web team of a 55+ membered body which works closely with Alumni Association and Dean ACR

- Responsible for maintaining 7+ domains of **SARC** using **Nginx** reverse proxy over **gunicorn** web servers
- Introducing **Angular8** Framework coupled with Django's **MVT Framework** and **Django Rest Framework** to provide a greater interactivity to user in terms of performance and also to make a more DRY-based codebase
- Conducting a major version update for 7+ domains of SARC using **RESTful APIs in Django2.2-LTS**

Quantify Capital | Quant Research Associate (Apr' 2020 - May' 2020)

- Designing, back-testing and implementing quantitative trading algorithms and strategies to generate **alpha**
- Extracting, analyzing and interpreting financial data-sets in Python to identify trading opportunities in Market

Programming Mentor | Web And Coding Club (Apr' 2020 - May' 2020)

- Mentored more than 5 students in development of a multi page application based on Django's MVT architecture

Economizer | Market Research Analyst (Dec' 2020 - 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
- Added dynamic functionality to the product by implementing **de-bouncing AJAX calls** to the server

Coordinator | Mood Indigo, IIT Bombay (Apr' 2019 - Dec' 2020)

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
- Working in a team of 7 to ideate and structure Dancefest, the **flagship event** of Mood Indigo 2019.

KEY PROJECTS

Time Series Analysis | Statistics I Course Project (Sept' 2019)

Prof. Puja Padi, Humanities and Social Sciences, IIT Bombay

- 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**

Study of Inflation Rates in India | Macroeconomics | Course Project (Nov' 2019)

Prof. Pushpa Trivedi, Dept. of Humanities and Social Sciences, IIT Bombay

- Traced back the effects of Great Recession and Oil Shocks on the economy and inflation rate in India
- Explained the fate of inflation rate in demonetization period using **Fisher's Monetary Exchange equation**

Spotify Song Recommendation Engine (Dec' 2019)

Open Source Contributions in Kharagpur Winter of Code 2019

- Implemented a machine learning algorithm for **recommendation system** in python coded in Object Oriented paradigm that used **item-item similarity** to suggest songs based on the previous songs heard by the user

MISCELLANEOUS & EXTRACURRICULARS

- Part of the music band that bagged 3rd position in **Music Arcade** (2019)
- Completed and excelled in an year long course in Keyboard conducted by National Sports Organization (NSO)
- Represented Hostel 4 in **Streetplay Arcade** and secured 1st position in the competition
- Part of the **winning team** of Crossy General Championship on behalf of Hostel 4
- Successfully Completed course (MOOC) on Deep Learning and Neural Networks by deeplearning.ai
- Successfully completed **Data Structures and Algorithms** Training in Summer Of Science 2020, IIT Bombay
- Successfully Completed **Software Development** Engineer Virtual Experience by **J.P. Morgan Chase & Co.**