	Poornima Dongre	170040084
	Poornima Dongre	**170040084**
	Civil Engineering	**B.Tech.**
	Indian Institute of Technology, Bombay	**Gender: Female**
		DOB: 23-01-2000

Examination	University	Institute	Year
Graduation	IIT Bombay	IIT Bombay	2021

PROFESSIONAL EXPERIENCE

SCHNEIDER ELECTRIC | Data Scientist | Global Supply Chain   [APR'20 - JUN'20]

*Received a **Letter of Recommendation** from project leader acknowledging a proposed **20% reduction** in the cost*
- Implemented Genetic Algorithm in **Python** to optimize container packaging; increased **space utilization** of cartons by **30%**
- Enhanced execution efficiency by developing web app using **JavaScript** to display **interactive 3D** container packaging views
- Created animated visualization of packed items, rendered at an average of **3 secs**, using Blender software (Python Scripting)

L&T CONSTRUCTION | Project Trainee | Transportation Infrastructure   [MAY'19 - JUN'19]

- Mapped geographical features of **10+** live road projects (INR 100B) using **ArcGIS** software to monitor & accelerate their progress
- Reconciled materials used by comparing Batching Plant and Daily Progress reports; limited wastage to **2%** of **material cost**

PROJECTS UNDERTAKEN

EQUITIES PORTFOLIO ALGORITHM | Prof. Piyush Pandey | SJM SOM, IIT Bombay   [JUL'20 - PRESENT]

- Built **portfolio algorithm** for NIFTY 100 stocks based on portfolio beta using **Python** & backtested on 2 years of historical data
- Optimized relative weights of selected stocks using Genetic Algorithm & fine-tuned parameters for highest Annual **Sharpe Ratio**
- Reported **over-performance** of portfolio by **52%** (Sharpe) & **40%** (Return) after benchmarking with **Modern Portfolio Theory**

CHAIN REACTION GAME | Prof. Krishna S. Narayana | Computer Science Engineering | Course Project   [JAN'18 - APR'18]

- Developed a two player strategical game in **C++**, taking real time input from first user and showing output for next user
- Employed **recursive function** and **2D array** to implement nearest-neighbor interactions and predict winning player

CREDIT CARD FRAUD DETECTION | Machine Learning | Self Project   [JUL'20 - AUG'20]

- Detected fraudulent credit card transaction by using anomaly detection algorithms **Isolation Forest** and **Local Outlier Factor**
- Performed Exploratory Data Analysis & employed models SVC, KNN & Decision Tree to achieve final **ROC AUC** score of **0.886**

WATER CONSERVATION STRUCTURES | Prof. Anand Rao | CTARA | Course Project   [JUL'18 - NOV'18]

- Investigated 5+ materials and technologies used to build **50+** economic (20% reduced cost) water storage tanks by site visits
- Examined existing conditions, cost-effectiveness & utilization of water tanks to provide recommendations to NGO-Jalvardhini

CASE STUDY ON STILLING BASIN | Prof. Riddhi Singh | Civil Engineering | Course Project   [JAN'19 - APR'19]

- Analyzed structural design & provided best design recommendation based on Froude number for stilling basin in Bhakra Dam
- Identified 5 failure mechanisms and computed total energy dissipated, length of stilling basin and hydraulic jump

TECHNICAL PROFICIENCY

LANGUAGES & SOFTWARE: Python, C++, JavaScript, HTML, CSS, Tableau, MS Office, AutoCAD, SolidWorks, Blender

ONLINE COURSES: Behavioral Investing, Trading Basics, Trading Algorithms, Advance Trading Algorithms, Creating a Portfolio, Introduction to Financial Markets, Portfolio & Risk Management, Python for Data Science and AI, Applied ML in Python

POSITIONS OF RESPONSIBILITY

COMPETITIONS COORDINATOR | Mood Indigo | Asia's Largest College Cultural Festival   [MAY'18 - DEC'18]

- Spearheaded team of **10+** students in managing, conceptualizing & executing 5 dance competitions with **1000+** participants
- Negotiated non-monetary deals with **4+** renowned judges and coordinated with cultural heads of **60+** colleges
- Responsible for end to end **ideation** and execution of first ever Solo Dance Competition catering to **500+** participants

ACHIEVEMENTS AND EXTRA-CURRICULARS

SCHOLASTIC	• Recipient of the prestigious **KVPY** fellowship (top 1.5% out of 0.1 million students) by IISc Bangalore	['17]
	• Awarded **NTSE** Scholarship (1000 meritorious students out of 0.9 million students) by the GoI	['15]
CERTIFICATES	• Awarded level 5 Diploma in **Investment Banking** and Sales by **London Institute of Banking & Finance**	['19]
	• Completed a certified Finance and Consulting Bootcamp conducted by Career Cell, IIT Bombay	['19]
CULTURAL	• Performed **15+** choreographies during Dance Flagship Event having a footfall of 1200+ audience	['19, '20]
	• Bagged **2nd position** in group dance in Performing Arts Festival, with a crowd of 1000+ students	['17]
	• Performed group dance in **Salsa** Night Opening Performance in front of **1000+** audience at IIT B	['18]
SPORTS	• Secured **1st position** among 60+ girls in Freshmen Athletics Crossy General Championship at IIT B	['17]
	• Undertook 2-month long rigorous training in **Inter-IIT Athletics** Summer Camp by IIT B Sports	['18]
	• Completed a yearlong professional training in Athletics under National Sports Organization, IIT B	['17]
SOCIAL	• Coordinated **Nirbhaya**: a women empowerment initiative impacting lives of **1800+** girls in 10+ states	['17]
	• Materialized SHE: **Menstrual Hygiene Awareness** campaign covering over **30 villages** of Maharashtra	['17]

Scholastic achievements and extracurricular activities are not verified by the Placement Cell