TANYA GUPTA

Indian Institute of Technology Bombay, 2020 B.Tech + M.Tech in Mechanical Engineering Minor: Computer Science and Engineering

INTERNSHIP EXPERIENCES

DEUTSCHE BANK GLOBAL MARKETS DIVISION, MUMBAI

Advisory Team, Asia Pacific Desk

Mav'18 - Jul'18

- Developed a **Client Solution tool**, supported by **excel VBA** for opportunity identification, custom analysis and derivative pricing of hedging solutions for all Asian currencies vs USD and EUR
- Implemented custom Value at Risk and correlation matrix analysis for 6 billion USD deal with Xiaomi to compare geographical risk exposures prior to its Initial Public Offering
- Deployed Cost Savings Analysis on a 1 billion USD deal with Merck, for the onshore and offshore curves
- Researched historical and implied volatilities and utilized Black **Scholes model** for **pricing currency pair** call and put options
- Tool increased efficiency by 25% when benchmarking companies

INDIAN SCHOOL OF BUSINESS, HYDERABAD

Research Intern, Centre for Analytical Finance

May'17 - Jul'17

Received Letter of Recommendation from director, CAF

- Devised algorithms in Python and VBA to analyze and implement five trading strategies in the Indian Equity Markets
- Calculated complexity of FTSE800 reports, performed sentiment analysis and incorporated results in WordCloud using R
- Evaluated **related party transactions** with respect to Corporate Governance standards and violations in India, recommendations from this research included in final report to the SEBI Committee

GREAT EASTERN SHIPPING CO. LTD., MUMBAI

Intern, Finance and Accounting Department

May'16 - Jun'16

- Familiarized with Books of Accounts, journal entries, annual reports
- Compared investment options on basis of IRR and NPV values

POSITIONS OF RESPONSIBILITY

INSTITUTE STUDENT MENTORSHIP PROGRAM

Institute Student Mentor

Apr'18 - May'19

Received Certificate of Special Recognition for commendable efforts

- One of **92 mentors** selected from **290 applicants** after rigorous screening based on peer reviews and all-round performance
- Aided 12 freshmen in their academic and extracurricular endeavors

SOLID MECHANICS, MECHANICAL ENGG. DEPT

Teaching Assistant, Prof. Jonnalagadda

Dec'17 - present

· Conducted weekly tutorials and graded tests for 115 sophomores IIT BOMBAY SPORTS COUNCIL

Institute Sports Convener

Apr'16 - Mar'17

- Executed inter-hostel championships with footfall of 10K+
- Contributed to girls' sports mentorship program by motivating participation in unconventional sports - cricket, hockey, football

KEY PROJECTS

8 - BAR BOX TRANSPORT MECHANISM

Prof. Anirban Guha, Course Project

Jan'19 - Apr'19

Jan'18 - Apr'18

- Simulated the displacement, velocity and acceleration profiles
- Modelled in **ADAMS Software**; sensitivity & joint clearance analysis DESIGN AND FABRICATION OF A FOLDABLE HELMET

Prof. Parag Tandaiya, Course Project

- Aug'18 Nov'18 • Designed foldable helmet with telescoping collapsing mechanism
- Presented 3D printed prototype; modelled on Autodesk Fusion 360

HANDWRITING RECOGNITION USING MACHINE LEARNING

Prof. Preethi Jyothi, Course Project

- Compared performance of CNN, SVM, Capsule Nets on MNIST
- Computed confusion matrix for error identification and accuracy OTHELLO GAME AI IMPLEMENTATION

Prof. Ganesh Ramakrishnan, Course Project Jan'17 - Apr'17

- Implemented **negamax algorithm** using alpha beta pruning
- Applied vectors and game trees with reduced time complexity

CPI: 8.53 / 10

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LEADERSHIP & EXCHANGE PROGRAMS

PUBLIC POLICY

Public Policy Bootcamp, Vision India Foundation Jun'19

- Among 150 delegates selected from 750 applicants
- · Interacted with MPs, bureaucrats and activists
- Secured second position in Idea Haat, for NGO Bagvati aimed at rural women empowerment

Young Leaders for Active Citizenship Sep'19 - present

- Developing core skills in policy analysis, advocacy & public leadership as one of **Policy in Action** Fellows
- Co-authoring policy brief on "Disaster Management in Western Ghats" for a Member of Parliament

WORLD BUSINESS DIALOGUE

Attended **keynote speeches** and panel discussions; second position in Covestro Creation Lab Feb'19

WOMEN EMERGING IN FINANCE

Bangalore

One of 100 selected across IITs and IIMs by Goldman Sachs based on interior design business model Jan'18

SEMESTER EXCHANGE, NTU

Singapore

Nominated for semester long cultural immersion and education at Asia's top university Aug'17 - Dec'17

INDIAN YOUTH DELEGATION

South Korea

2015

2015

Represented India in the 10 - day cultural exchange and participated in Homestay program May'17

ACADEMIC ACHIEVEMENTS

- Granted branch change from Civil to Mechanical owing to exceptional academic performance 2016
- Secured 5th rank overall, 1st rank among girls in Common Engineering Tests in Maharashtra 2015
- **Rank 166** in JEE Mains (out of 1.3 million)
- Bagged All India Rank 1889 in IEE Advanced 2015
- Achieved rank 1 in Mumbai in HSC Boards
- Recipient of Maharashtra State and eligible for Dhirubhai Ambani Scholarships 2015

CERTIFICATIONS

- Bloomberg Market Concepts • Finance Bootcamp
- KPMG Lean Six Sigma Green Belt Thomson Reuters

EXTRACURRICULAR ACTIVITIES

SPORTS

- Represented IIT Bombay as a member of basketball team at 51st Inter-IIT Sports Meet, Kanpur
- Awarded Hostel Sports Special Mention
- Bestowed Hostel Player of the Chess GC
- Secured gold in KJ Somaiya's sports fest SKREAM, silver in the ICT basketball tournaments
- Bagged gold in Tug of War and Basketball GCs; silver in Squash and Chess GCs; bronze in Carrom GC

CULTURALS

- Finalist in BollyNritya group dance competition in Kaleidoscope, cultural fest of Sophia College
- · Awarded Trinity Guildhall for clearing Speech and Drama Grade 1, 2 and 3 with distinction

COMMUNITY SERVICE

- · Volunteered with NGO Vayam on collecting data on water resources in Maharashtra Villages as part of Rural Immersion for Science and Engineering, CTARA
- Conceptualized the DhyanChand Donation Drive for donating old sports equipment in orphanages
- Did Socially Useful Productive Work, performed a play on women education in Alibaug villages