

Ankul Dass

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Master of Engineering in Financial Engineering, **GPA: 4.04/4**

Expected December 2023

Birla Institute of Science and Technology Pilani, Goa, India
B.Eng. in Electrical and Electronics with Minor in Finance, **First Class, GPA: 8.57/10**

May 2020

Selected Coursework: Machine Learning, Monte Carlo Simulation, Fixed Income Securities, Stochastic Calculus, Derivative and Risk Management, Optimization, Business Analysis and Valuation, Securities' Analysis and Portfolio Management

SKILLS & CERTIFICATES

Technical: Python, SQL, Matplotlib, Microsoft Office, Pandas, NumPy, Tableau | **Certificates:** Bloomberg Market Concepts

EXPERIENCE

Senior Analyst, J.P. Morgan Chase & Co., Mumbai, India

Aug. 2020 to June 2022

Auto-resizing Product

- Developed automated credit line-sizing algorithm to set ACH exposures for Commercial Banking Clients
- Made the pre-existing pipeline more robust by increasing the frequency of checking of client usage by **6 times**
- Product is currently **deployed and live**, having proven savings in the credit exposure given to clients, along with a reduced number of overdrafts; was the **sole developer** for product enhancements and maintenance since June 2021.

Risk Eligibility Model

- Developed a LightGBM model to identify clients which are more likely to default and alert them to Credit Officers
- Performed feature engineering (new feature creation), categorical encoding, feature selection

Quantitative Researcher, J.P. Morgan Chase & Co., Mumbai, India

July to Dec. 2019

- Automated monthly KPI and KRI for monthly reporting of different credit products for Commercial Banking clients
- Performed data cleaning & data validation for model development via pandas, NumPy, and sci-kit-learn libraries
- Created probabilistic maximum likelihood bigram spell check algorithm to replace misspelled words from web extracted documents

PROJECTS

Machine Learning, Cornell University

Aug. to Dec. 2022

- Implemented image classification on low dimensional manifold using **k-nn** and **perceptron** for spam email filtering.
- Developed non-linear binary classifiers from scratch using **kernelized SVMs** and **CART**
- Performed image classification by developing CNNs and multi-layered perceptron model with help of **PyTorch**

Binomial Option Pricing Model, Cornell University

Sep. 2022

- Developed a dynamic no-arbitrage N-period Binomial model to find the current price of call option, deltas & payoffs and analyzed its convergence with Black Scholes Model using **NumPy** and **SciPy**
- Analyzed impacts on different Greeks of an option with varying strike prices, maturities, initial prices & market volatilities

Minimum Variance Portfolio Construction, Cornell University

Oct. 2022

- Constructed minimum variance portfolio of 20 stock indices for 20-day holding periods using linear regression models.
- Evaluated the performance of portfolio using different regularization methods like **Ridge**, **Lasso** and **Elastic Net**.

Analysis of FMCG Sector, BITS Pilani, Goa, India

Aug. to Dec. 2018

- Used Porter's 5 Force Model, PEST, and SWOT Analysis for Fundamental Data Analysis
- Applied DuPont Analysis to estimate the profitability of major Indian Auto Companies based on their asset turnovers
- Conducted sustainability study for a new entrant in the coffee industry, using Porter's five force model to draw insights from the business models of Starbucks and McCafé

LEADERSHIP EXPERIENCE

Intern Mentor, J.P. Morgan Chase & Co., Mumbai, India

Jan. to June 2022

- Trained three interns on the workings of team, helped them understand team's existing credit products and guided them to add more functionality for product monitoring and maintenance

ACTIVITIES/INTERESTS

Department of Photography member at BITS Pilani, Soccer, Reading, Health and Fitness, Anime, Manga