

PROFESSIONAL EXPERIENCE

2023 (2 Months)	Piramal Capital and Housing Finance Ltd. Data Analyst Intern <ul style="list-style-type: none"> Forecasted the prices of 7 sectoral indices (NIFTY Auto, FMCG, Pharma, Financial Services, IT, Consumer Durables, Bank) using Macroeconomic and Sector-Specific Factors. Conducted Feature Engineering, Granger Causality, and Time Series Analysis for each sector. Built a regression model with adjusted R Square in the range of 84% to 96% for all sectors. 	Mumbai / India
2023 (2 Months)	Bonanza Portfolio Ltd. Equity Research Analyst Intern <ul style="list-style-type: none"> Crafted a financial model on Tata Motors Ltd. using Discounted Cash Flow (DCF) valuation method seeing an upside of 15%. Back tested a proprietary software and suggested 15+ bug fixes and UI changes. 	Mumbai / India
2022 (3 Months)	Hurix Digital Angular Developer <ul style="list-style-type: none"> Developed the SaaS product Kitaboo using Angular and related languages. Designed front-end, integrated back-end APIs, and implemented web app functionalities. Received Star of the Month in a dept. with 40+ people, extension of tenure to July (accepted) and PPO offer. 	Remote / India

EDUCATION

2019 – 2024	NMIMS University , MBA (Master's in Business Administration) Major in Technology Management with a specialisation in Finance Minor in Business Analytics Co-authored a book chapter titled "Evolution of Capital Asset Pricing Model (CAPM)" in "Technology, Business and Management in Dynamic Era" (ISBN - 978-93-91044-51-0) Link <ul style="list-style-type: none"> Evaluated accuracy of CAPM return based on forecasted data (Ex-Ante) against the traditional method which is based on historical data (Ex-Post) for a sample of 30 stocks. For 20 out of the 30 sampled stocks, the Ex-Ante CAPM exhibited, on average, a greater accuracy in estimating the required rate of return compared to the Ex-Post CAPM by 5.78%. 	GPA – 3.85 / 4.00
2019 – 2024	NMIMS University , B. Tech. (Bachelor of Technology) Major in Computer Engineering Final Year Project – Suspicious Fishing Activity Detection using Machine Learning <ul style="list-style-type: none"> Performed data analysis and feature engineering using Python, Excel, and Tableau to create a novel labelled dataset with more than 50,000 samples of AIS disabling events. Achieved a testing recall of 80% by implementing several Machine Learning Algorithms. Review paper accepted by the International Conference on Intelligent Computing and Networking. Research paper currently in the pre-print stage. DOI Link 	GPA – 3.85 / 4.00

SKILLS

- Python –
 - NumPy, Pandas, StatsModels, Matplotlib, Plotly
 - Scikit-learn, XGBoost, SMOTE, Undersampling
- Data visualisation – Excel and Tableau
- Web Development – HTML, CSS, JavaScript, Angular
- Time Series - ARIMA, FB Prophet, VAR

PROJECTS

2023	Portfolio Allocation <ul style="list-style-type: none"> Developed a Python program that uses constrained linear programming to determine the most efficient portfolio allocation based on various financial models - Markowitz Efficiency Frontier, Sharpe's Optimal Portfolio, CAPM and Arbitrage Pricing Theory. Utilised Sharpe's Ratio, Treynor Ratio and Jensen's Alpha to find the optimal portfolio.
2023	Options Strategy Builder <ul style="list-style-type: none"> Automated the task of options strategy building using Python - data extraction of option chain from NSE using web scraping, payoff chart and final P&L, based on option strike prices and maturities as inputs.
2019	IIT Gandhinagar, Centre for Creative Learning <ul style="list-style-type: none"> Designed and created MDF-based 3-D Puzzles in AutoCAD for distribution to schools in Gujarat, fostering creative learning.

EXTRA-CURRICULAR & CERTIFICATIONS

Certifications	<ul style="list-style-type: none"> National Institute of Securities Markets (NISM) Series XV Research Analyst National Institute of Securities Markets (NISM) Series VIII Equity Derivatives. Rank 14 globally in the SAS Curiosity Cup which had participants from 16 different countries.
Extra-Curricular	<ul style="list-style-type: none"> Co-Founded the CodeChef Committee for Competitive Programming at NMIMS University. President of the Computer Society and Editor-in-Chief of the Film Making society at Mayo College, Ajmer.
Sports	Squash - Participated in National, State, and Inter Public School Conference squash tournaments.
Languages	Hindi (Mother Tongue), English (Bilingual), French (Intermediate)