Vala Yash Vipulbhai

3rd Year Undergraduate Department Statistics and Data Science $\begin{tabular}{l} $ & : +91-8200920030 \end{tabular} \begin{tabular}{l} $ & : valayash \\ \hline \begin{tabular}{l} $ & : valayash \\ \hline \end{tabular} \begin{tabular}{l} $ & : va$

Academic Qualifications

Year	\mathbf{Degree}	Institute	CPI/%
2021 - Present	B.S. in Statistics and Data Science	Indian Institute of Technology, Kanpur	6.72/10
2021	CBSE(XII)	Modi School, Rajkot	95.6%
2019	GSEB(X)	G.T. Sheth Vidyalavya, Rajkot	83.5%

Achievements

- Bagged Bronze Medal in Inter-IIT Tech Meet 11.0 conducted by IIT Kanpur, in QuantInsti's problem statement [2023]
- Secured All India Rank 3926 in Joint Entrance Examination Advanced 2021 among 2.5 Lakh shortlisted candidates
- Secured All India Rank 4218 in Joint Entrance Examination Main 2021 among 12 Lakh eligible candidates

[2021] [2021]

Work Experience

FundU | Data Science Intern

(Dec'22 - Jan'23)

Objective	• Developed a ML model to assign badges scores to tags, similar to the system used on the Stack Overflow platform
Approach	• Studied and implemented decision trees and clustering on a random dataset, demonstrating practical ML skills
Approach	• Created a comprehensive list of 50+ tags to be added to the model for assigning badges and reputation points
Result	• Contributed to enhancing the user experience on by implementing a more engaging and rewarding badge system

Inter-IIT Tech Meet 11.0

Efficacy of Price Action Trading Strategies in the Context of Indian Equities Market | QuantInsti (Jan'23-Feb'23)

Objective	• To generate a trading model based on price action trading strategy and backtesting on Blueshift platform
Approach	• Analyzed strategies in the Indian Market, studying 4+ chart patterns such as Head & Shoulders and Engulfing
Approach	• Succeeded in hypothesis testing to predict the returns of futures by using INDIAVIX and NIFTY50 Futures
Result	• Implemented the hypothesis and achieved returns of over 90% for a 3-year time period with Sharpe Ratio 1.31

Projects Mentored

 ${\bf Introduction\ to\ Quantitative\ Trading}\mid {\it Finance\ and\ Analytics\ Club,\ IIT\ Kanpur}$

(May'23-Jul'23)

Mentored 30 selected students out of 350+ application for the same

Objective	• Develop a Quantitative Trading Model from scratch and also learn about various Financial tests and terms					
Annuonah	• Taught about Sharpe Ratio, Z Score, Moving averages and their impact and application in Quantitative Trading					
Approach	• Analyzed 10+ stationary & non-stationary pairs using ADF test and implemented the Mean Reversion strategy					
Result	• Deployed the strategy after coupling with Intra-Day and backtested to generate a return of 80 % annually					

Key Projects

ML Applications in Financial Markets

(Jun'23-Jul'23)

Mentor: Prof. Tushar Sandhan | Course Project: EE798Q

Objective	• To build a model and predict the closing stock price data of next 2 days , on a given sample of past 50 days
Approach	• Studied temporal data analysis, models (RNN, LSTM and GRU) and their application in time series forecasting • Tested LSTM and GRU models on data of past 10 years, and optimized using metrics such as MSE, R2Score
Result	• Implemented the LSTM model and achieved an R2Score of 97.3% and a RMSE less than 1.5% of the mean

Positions of Responsibility

Vlana	ager	٠,	Alur	nni	Rel	ation	O	utreach	Cell,	IIT	Kanpur

(Apr'23 - Present)

Leadership	• Leading a 3 Tier team of 35+ secretaries collaborated with DoRA office, for smooth conduction of cell activity			
	• Organized 3+ reunions with 1000+ alumni and acted as point of contact for 10+ alumni during campus tours			
	• Initiated the event Time Capsule in the 56th convocation for the graduating batch receiving 500+ responses			
Initiatives	• Conducted Open House in 10+ cities to introduce 1000+ students to the culture and academics of IIT Kanpur			
	• Introduced a series of mock interviews by Alums for students, Mock-en-Joy, getting responses from 60+ Alums			
Impact	• Facilitated 200+ mock interviews to help students prepare themselves for the upcoming internship drive 2023-24			

Secretary, Finance Committee | Hall Executive Committee, Hall 2, IIT Kanpur

(Mar'23 - Present)

• ,	• Managing an annual budget of INR 10 lakhs+ for Hall 2 catering to a diverse community of 600+ residents
_	• Elected by 400+ students, representing students on the Finance Committee, contributing to financial decisions
Initiatives	• Secured INR 3 lakhs from Dean's Capital Fund for renovation of guest house and procured new washing machines

• Managed a budget of 1 lakh for the Hall 2 in the General Championship 2023, ensuring proper allocation of funds

Relevant Courses

Introduction to Probability Theory	Data Science Lab - I & II	Theory of Statistics
Fundamental of Computing	Data Structure and Algorithm	Foundations of Inferential Statistics
Matrix Theory and Linear Estimation	Elementary Stochastic Processes - I	Statistical Computing