

SAMYAK JAIN

Senior Undergraduate | Department of Civil Engineering

✉ samyak@iitk.ac.in | ☎ +91-7742858431 | in samyakjain

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2018 - Present	B.Tech. (Civil)	Indian Institute of Technology Kanpur	7.3/10.0
2018	Class XII (CBSE)	Aklank Public School, Kota	92.8%
2016	Class X (CBSE)	St. Paul's Sr Sec School, Kota	10.0/10.0

Scholastic Achievements

- Secured an **All India Rank 3632** in Joint Entrance Examination (JEE)-**Advanced** 2018 among 2.4 lakh candidates
- Secured an **All India Rank 118** in Consortium of Engineering Colleges of Karnataka UGET 2018 among 1 lakh candidates

Work Experience

Market Analyst Intern | Axxela Advisory Services LLP

Jun'21 - July'21

Objective	<ul style="list-style-type: none">Analyse and implement trading strategies in spreads & outrights of milling wheat and rapeseed contractsProduce a research based on fundamentals of milling wheat by analysing the contracts data and prices
Approach	<ul style="list-style-type: none">Executed day-to-day trading operations effectively using trend-line based analysis with 300+ tradesConducted price analysis using Candlestick patterns and technical indicators like Bollinger bands, SMAPerformed extensive research on milling wheat markets by analysing its production cycles, seasonalityAnalysed the prices of Milling wheat contracts by correlating them with monthly stock-to-use ratio
Result	<ul style="list-style-type: none">Obtained ≈60% accuracy in identifying the profit-generating entry & exit points for different contractsDeveloped the report on Milling wheat contract containing estimated price and fundamental analysis

Key Projects and Certifications

Empirical Asset Pricing using Machine Learning | Prof Suman Saurabh, Department of IME, IIT Kanpur Mar'20 - Jun'20

- Drafted a sample **ML model** for **INFOSYS** company to predict the **the movement of share price for next 30 days**
- Generated variables used in ML model and did data cleaning and data analysing with the help of **Pandas** and **NumPy**
- Formalised .txt file with more than **1 lakh** data entries and converted it to .csv format for data analysis

Credit Card Fraud Detection | Self Project

🕒 | June'21 - July'21

- Built a model to classify fraud transactions dealing with **high class imbalanced dataset** containing transactions data
- Performed various techniques like **Random Undersampling**, **NearMiss algorithm** and **SMOTE** to handle class imbalance
- Implemented various ML algorithm including **Logistic Regression**, **SVM & decision tree** to classify data
- Compared different models based on their **F1 score** and **Confusion matrix** and plotted their ROC and learning curves.

Portfolio Optimization using Markowitz Model | Coursera Project Network

July'21 - Aug'21

- Used **Modern Portfolio Theory** to analyze risk and return of different stocks and their relation with each other and the market
- Eliminated the **specific risk** to obtain the optimal weights for maximum **Sharpe ratio** and **minimum variance** portfolio
- Quantified risk-to-reward using **Treynor Ratio** and calculated **Value at Risk** for investment portfolio
- Analysed the individual portfolio using **Efficient Frontier** by considering the individual **investor's risk tolerance**

Equity Market Analyst Certification | Finlatics: Enabling Insights

Mar'21 - May'21

- Developed and supervised a real time portfolio on **BSE 500 companies** for over a period of 2 months
- Applied **Technical Analysis** for Swing Trading to generate returns of over **17%** in Indian Market with a capital of 2,00,000 Rs
- Used **Open Interest Analysis and Volumes** to find support and resistance for different shares in Nifty 100
- Identified the strength in different scripts using **Price action** and increased returns with help of **pyramiding**

Technical Skills

Languages: C, C++, Python, SQL, Matlab, HTML, Javascript

Tools: Github, MS-Office, AutoCad, LaTeX

Relevant Coursework

*Online Courses

Data Structures and Algorithms	Derivatives -Options & Futures*	Microeconomics-I
Real Analysis and Multivariable Calculus	Applied Probability & Statistics	Introduction to Corporate Finance*
Introduction to Data Science*	Computational methods in Engineering	Fundamentals of Computing

Positions of Responsibility

Core Team Member | Games and Sports Council, IIT Kanpur

Mar'20 - Mar'21

- Spearheaded a **team of 15 students** to conduct year-long activities and events of GnS Council for the whole campus
- Assisted the council conduct **All India Fitness Challenge among 23 IITs** in which **IIT Kanpur** came **First**
- Conducted regular discussions and sessions on how to keep **mental balance** and **physical strength** during Lockdown

Marketing Secretary | E-Cell, IIT Kanpur

April'19 - Feb'20

- Negotiated with **100+** companies and convinced them to **sponsor E-Summit 2019-20** for amount of more than **7 lakh INR.**
- Coordinated with **10+ speakers**, **500+ students** and carried out smooth Conduction of **E-Summit-2019**