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EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.25 (Current)	2022-Present
Senior Secondary	CBSE Board	94.6%	2022
Secondary	CBSE Board	99.2%	2020

EXPERIENCE

• World Quant LLC

Oct. 2023 - present

Research Consultant

Made several Trading Strategies(alphas) on Top 3000 US and CHN stocks.

Projects

• Crypto Trading Strategy

Dec. 2023

Inter IIT Tech Meet 12.0, IIT Madras

Github

- Devised an algorithmic trading strategy using historical data for the BTC-USDT market by utilising technical indicators like RSI, VWAP, Aroon Indicator and Moving Averages.
- Implemented risk-management measures such as dynamic price-level stoplosses and time-based stops to mitagate position risk.
- Generated trading signals and constructed a **backtesting** module to report and analyse metrics such as **Returns**, Drawdown, Sharpe Ratio, Win Rate, Trade Duration, Transaction fees, etc.

• Modern Portfolio Optimization using Markowitz Model

Oct. 2023

Personal Project, Finance and Economics Club

Github

- Optimized portfolios with the Markowitz Model based on Modern Portfolio Theory (MPT).
- Conducted Fundamental Analysis to select five assets, identifying portfolios with a high Sharpe ratio and minimal risk for optimal performance.
- Quantitative Pairs Trading Strategy with Cointegration

Nov. 2023

Group Project, Finance and Economics Club

Github

- Developed a sophisticated trading strategy incorporating Cointegration, Z-score Analysis, and Spread Dynamics for precise signal generation.
- Optimized portfolio returns and mitigated risk through strategic risk management, employing Take-Profit Mechanisms, and fine-tuning **Position Sizing** strategies while monitoring key performance metrics.

TECHNICAL SKILLS

- Programming: C/C++, Python (numpy, pandas, matplotlib, seaborn), JavaScript
- Finance: Fundamental Analysis, Quantitative Technical Analysis, Portfolio Optimization, Blockchain and Web3*
- Web/App Technologies: HTML, CSS, ReactJS, Node JS, MongoDB, ExpressJS, Kotlin*
- Data Analytics: Data mining, Service management dashboards, Analysis and design

* Elementary proficiency

KEY COURSES TAKEN

- Mathematics: Linear Algebra, Basic Calculus, Discrete Maths, Probability Theory, Number Theory
- Finance: Fundamental Analysis, Quantitative Technical Analysis, Game Theory and Macroeconomics, Blockchain
- Computer Science: Data Structures and Algorithms, Digital Design, Design and Analysis of Algorithms, CS101
- Machine Learning: AI.Machine Learning course, IITG.ai Club, IIT Guwahati

Positions of Responsibility

• Vice President Office(VPO) Elite, SGC, IIT Guwahati

August 2023 - present

- Contribution to the decisions made by the **Student Senate** and helped in organizing various Student Gymkhana Council Events.
- Branch Representative, CSE, CSEA, IIT Guwahati

- Represented CSE branch during **Student Academic Board(SAB)** conferences and establish regular communication between students and professors.
- Organized a number of events including various sports Tournament and Coding Contests.

Achievements

• Silver Medal, Inter IIT Tech Meet 12.0, secured	d 2nd position	among 21 IIT's.
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2023

• Joint Entrance Exam(Advance), secured 490 rank among 100,000 students

2022

• Joint Entrance Exam(Mains), secured 783 rank among 1,000,000 students

2022

Senior Secondary CBSE Exam, State Topper (MP)-secured 99.2%

2020

2021

National Talent Search Exam(NTSE), Cleared Stage 2 Indian Olympiad Qualifier in Physics(IOQP), State Topper (MP) 2021