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EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	9.12 (Current)	2023-Present
Senior Secondary	CBSE Board	96.6%	2022
Secondary	CBSE Board	96.0%	2020

EXPERIENCE

• World Quant

Oct. 2023-present

Research Consultant

- Employed quantitative methodology to create systematic investment strategies, namely Alphas
- Created **Uncorrelated Alphas** with high Sharpe, low Turnover and low Maximum Drawdown Ratio
- Collected and analyzed large datasets to derive actionable insights for trading strategies

PROJECTS

Pairs Trading and Cointegration Strategy

Oct. 2023

Finance and Economics Club, IIT Guwahati

Github Link

- Used Python libraries to compute a pair of stocks having maximum cointegration
- Implemented a **low-frequency** pairs trading strategy using cointegration for those two stocks
- Strategy was implemented to profit from relative movement of the two stocks
- Backtested the strategy for past three years

• Portfolio Optimisation

Sept. 2023

Finance and Economics Club, IIT Guwahati

Github Link

- Applied Markowitz Model over a portfolio of seven stocks
- Calculated the **mean** and **skewness** of stocks with visual representation
- Calculated Profit and Loss for a given capital through this model

• Game Theory

Sept. 2023

Finance and Economics Club, IIT Guwahati

Github Link

- Learned and implemented the concept of Game Theory
- Created two games based on **Sealed Bid Auction**
- Implemented the model using Python and analysed outputs of randomized inputs

TECHNICAL SKILLS

- -Programming: Python, C/C++
- -Data Visualisation: Pandas, Numpy, Matplotlib, Seaborn
- -Finance Tools: YFinance
- -Operating Systems: Windows, Linux
- -Others: Git, Github, Jupyter Notebook, Google Colab

KEY COURSES TAKEN

- -Mathematics: Linear Algebra, Basic Calculus, Probability and Random Processes*
- -Finance: Financial Markets, Technical Analysis, Fundamental Analysis, Quantitative finance, Risk Management and Portfolio Optimisation
- -Computer Science: Discrete Maths*, Data Structures and Algorithms*
- -Programming: CP.BEGIN, Coding Club, IIT Guwhati

Positions of Responsibility

- Associate, Finance and Economics Club, IIT Guwahati

Apr. 2023 - Present

ACHIEVEMENTS

- JEE Advanced 2022: Secured AIR 499 among 0.15 million candidates
- **JEE Mains 2022**: Secured AIR 860 among 1.1 million candidates
- KVPY SX 2021: Secured AIR 1062 among 50,000 candidates
- IOQC 2022: Awarded State Topper Certificate by Homi Bhabha Center for Science Education
- IOQM 2022: Awarded Merit Certificate by Homi Bhabha Center for Science Education