



# Rahul Sharma

Roll No.:200107063

B.Tech - 2024 and Chemical Engineering

Minor in Electronics and Electrical

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Indian Institute Of Technology, Guwahati

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.37 (Current)	2020-Present
B.Tech. Minor	Indian Institute of Technology, Guwahati	8.0 (Current)	2021-Present
Senior Secondary	CBSE Board	93.4%	2020
Secondary	CBSE Board	93.4%	2018

## PROJECTS

- **Portfolio Optimization** March 2022  
*Finance and economics club* Github
  - Executed Stock Asset Optimization of Portfolio consisting of 5 and more stocks using Monte Carlo Optimization and Sharpe ratio and using the normal variance for getting separate type of returns in both cases according to the risk taken.
  - Followed a wide range of python libraries such as pandas, numpy, matplotlib, yfinance and yahoofinancials.
  - Calculated mean, variance, skewness, and kurtosis for each stock return with graphical representation as well.
- **Financial Graph Scalings** February 2022  
*Finance and economics club* Github
  - Did an analysis of Chemical Sector and picked 2 fundamentally strongest stocks through various ratios and returns.
  - Calculated risk through variance, plotted returns of both the companies and found the correlation factors between the two using a wide range of libraries in python such as pandas, numpy, matplotlib, yfinance
- **Valuation** February 2022  
*Finance and economics club* PDF
  - Picked two of the promising stocks among the chemical sector and searched through their financial statements and equity research reports.
  - Calculated the intrinsic value of stocks through DCF model of valuation through computation of various formulas and libraries in ms-excel and python
  - Finally calculated after various assumptions in model the target upside and Internal Rate of rate value for the stocks
- **FEC Capital** December 2021  
*Finance and economics club* PDF
  - Created our proprietary investment fund portfolio consisting of 13 top gainer stocks f.
  - Sectors and stocks were selected by fundamental overview such as market economics, government policies, etc
  - Reports consists:- Position Statement, Sector analysis, Company analysis, Financials, Related to industry competitor Analysis, Risks and Concerns, Ratio Charts; Portfolio Stocks - Muthoot Finance,Birla Cement, etc.

## TECHNICAL SKILLS

- **Programming:** Python\*, C/C++
- **Web technologies:** HTML\*,CSS\*,JS\*,Django\*,MATLAB
- **Miscellaneous:** MS Excel,Canva,Pandas\*,Numpy\*,Matplotlib\*
- **Operating Systems:** Windows, Mac \* Elementary proficiency

## KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Basic Calculus, complex number,Matrices
- **Course taken:** Introduction to c++,Introduction to c,Analog circuits,Digital Circuits,Computer Aided numerals in matlab

## POSITIONS OF RESPONSIBILITY

- **Funds research intern** ,Finance and Economics Club, IIT Guwahati November 2021 - March 2022
- **PR and Branding Executive** ,Alcheringa, IIT Guwahati October 2021 - March 2022

## ACHIEVEMENTS

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- **JEE ADVANCED**, Secured top 1 percentile out of .25 million candidates 2020
  - **JEE MAINS**, Secured 99.53 percentile out of 2.2 million applicants 2020
  - **KVPY(round 1 and 2)**, Secured a 1172 rank after clearing the interview and became eligible for the stipend 2020
  - **State Level Swimmer**, Participated in Haryana state level swimming competition after securing gold in district 2017
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