

EDUCATIONAL QUALIFICATION

Year	Degree	Institution	Score
Present	B.Tech. Chemical Engineering	Indian Institute of Technology Kanpur	7.6 CPI
2017	AISSE	Nalanda Academy, Kota	85.4%
2015	AISSE	S.R. Public School, Kota	10.0/10.0

SCHOLASTIC ACHIEVEMENTS

- Achieved a percentile of **99.1** all over India in JEE-MAINS, (more than 1.2 million candidates) 2018
- Attended **VIJYOSHI CAMP**, mentored by Nobel Laureates, conducted by IISc Bangalore 2016
- Awarded **Kishore Vaigyanik Protsahan Yojana (KVPY)** Fellowship, DST, Government of India 2015
- Achieved **11th rank** in Indian National Earth Science Olympiad, Geological Society of India, Govt. of India. 2015
- National Talent Search Examination (NTSE)** first stage qualified, NCERT, Government of India 2015

PROJECTS

- Text Based Analysis of Financial Constraints** (Prof. Suman Saurabh, IME Department, IIT Kanpur) *Jul'20- Ongoing*
 - Explored about the **Financial Constraints** and methods to analyse **financial constraint index** using **cosine similarity**
 - Used NLP techniques like **Tokenisation, Lemmatisation**, processed over **400** machine-readable annual reports of firms
 - Differentiated between **equity, debt, private-placement** focused **delay** of investment by finding specific words in data
- Stock Price Prediction using LSTM network** (Self Project) *Jun'20-July'20*
 - Optimised an LSTM network to predict stock prices using Convolutional 1D layer, Bidirectional LSTM and Dense Layers
 - Improved the mean absolute error from **0.94** using only LSTM network to **0.66** working of seven years of data
- RNA Gene Expression Data Analysis using PCA** (Self Project) *Jun'20-July'20*
 - Identified the Adenocarcinoma tumour and removed Neuroendocrine tumour using **PCA(Principal Component Analysis)**
 - Applied **K-Means Clustering algorithm** to analyse the effect of different variables in dataset on patient's histology
- Trading Strategies & Backtesting** (Sachin Angural, Finance Discussion Group, IIT Kanpur) *Dec'19-Jan'20*
 - Learnt about various strategies like **Momentum & Pairs Trading**, various KPIs and Technical Indicators
 - Using historical data, formulated strategies to optimise a portfolio by backtesting using Python
- Website Dev. of Chemical Engineering Dept.** (Prof. Rahul Mangal, Chemical Engineering, IIT Kanpur) *Aug'19-Feb'20*
 - Revamped existing **Website of Department of Chemical Engineering**, IIT Kanpur using HTML and CSS
 - Designed the Front-End keeping in mind the user interactivity with website and hence improving user experience

TECHNICAL SKILLS

Programming: C, C++, Python, MATLAB, R **Databasing:** MySQL **Utilities:** Git, AutoCAD, HTML, CSS, Javascript, MS-Excel

RELEVANT COURSES

*online courses

Chemical	Chemical engineering Thermodynamics, Fluid Mechanics, Process Calculations
Engineering	Computational Methods in Programming, Manufacturing Processes (I and II), Introduction to Electronics
Others	Fundamentals of Computing, Linear Algebra & Differential Equations, *Practical Time Series Analysis, *Mathematics for ML, *Sequence Models, *NLP in TensorFlow, *Equity Portfolio Management

POSITION OF RESPONSIBILITY

Coordinator, Finance & Analytics Club (2020-21)

Leadership	<ul style="list-style-type: none"> Lead a team of 25 members, managed FB group of 2.1K members & a budget of 95K to promote finance Conducted projects, discussion talks, seminars and workshops on various fields in finance and analytics
Initiatives	<ul style="list-style-type: none"> Organised month long workshop on Algo Trading, ML in Finance & Derivative Markets, 600+ participated Organised five, 2-month long summer projects on various innovative methods and techniques in finance

Student Guide, Counselling Service Team (2019-2020)

- Guided and mentored **4 freshman students** in acclimatising to the environment of the institute
- Successfully organised Orientation Program for **900+ freshmen** working in a team of **175 student guides**

Badminton Secretary, Games & Sports Council (2019-2020)

- Conducted **two badminton leagues** and **one inter hostel tournaments** to promote badminton in the campus

EXTRA CURRICULARS

- Won a **Silver Medal** at inter hall **badminton competition** (Inferno), 2019
- Active member of campus badminton team which represents IIT Kanpur at Inter IIT sports meet
- Current **#1** on leaderboard in **Equity Portfolio Management competition** AlphaBeta League conducted by AlphaBeta
- Completed **Hacktober Fest 2019**, created plugin for personal assistant for macOS/LINUX telling user's current location