EDUCATIONAL QUALIFICATION					
Year	Degree	Institution	Score		
Present	B.Tech. Chemical Engineering	Indian Institute of Technology Kanpur	7.6 CPI		
2017	AISSCE	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) 					
 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. 201 					
National Talent Search Examination (NTSE) first stage qualified, NCERT, Government of India					
 Attended Training Camp of Indian National Earth Science Olympiad, Geological Society of India, Govt. of India 2015 					

.

PROJECTS

Jul'20- Ongoing

2013

Text Based Analysis of Financial Constraints
 Mentor: Prof. Suman Saurabh, Industrial and Management Engineering, IIT Kanpur

• Learnt about the Financial Constraints and methods to analyse financial constraint index for various firms

Achieved 100 percent score with International Rank 4 in International Olympiad of Science, Silver Zone

- 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
- Calculated financial constraint index using Cosine Similarity, representing the extent of delay investment for a firm
- Stock Price Prediction using LSTM network (Self Project)

Jun'20-Jul'20

- Optimised an LSTM network to predict stock prices using Convolutional 1D layer, Bidirectional LSTM and Dense Layers
- Improved the mean absolute error form 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 Interferons in Pancreatic Adenocarcinoma tumours
- Trading Strategies & Backtesting

Dec'19-Jan'20

Mentor: Sachin Angural, Finance Discussion Group, IIT Kanpur

- 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 Development of Chemical Engineering Dept.

Aug'19-Feb'20

Aug'19-Nov'19

Mentor: Prof. Rahul Mangal, Chemical Engineering, IIT Kanpur

- 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

Destroyer T-360

Mentor: Prof. Mohit Law, Mechanical Engineering, IIT Kanpur

- Developed a Ballistic Tank conceptualised on Hand-Crack Mechanism that could change it's azimuth and elevation
- Constructed the plan on AutoCAD, used 3-D printed products, Arduino coding and basic machining
- The firing mechanism of the tank was Voice Controlled which used IOT component: HC-05 Bluetooth Module

Market Research & Patent Evaluation

Dec'18-Jan'19

Mentor: Harshit Baranwal, Finance Discussion Group, IIT Kanpur

- Utilised Capital Expenditure Calculations to evaluate the market size for a product or a patent
- Determined the profitability of a product by DCF (Discounted Cash Flow) and NPV (Net Present Value) calculations

TECHNICAL SKILLS

Programming/Scripting: C, C++, Python, MATLAB, R, LaTeX. **Databasing:** MySQL.

Web Development: HTML, CSS, Javascript. Utilities & Tools: Git, AutoCAD, AutoCAD Inventor.

RELEVANT COURSI	ES			
Fundamentals of Computing Linear Algebra & Differential Equations		Chemical engineering Thermodynamics Computational Methods in Computing		Fluid Mechanics Thermodynamics
CERTIFIED ONLINE	COURSES			
Trading Algorithms Sequence Models	Introduction to Ma NLP in TensorFlow	_	Practical Time Series Analysis Equity Portfolio Management	Mathematics for ML Bayesian Statistics

POSITIONS OF RESPONSIBILITY

Coordinator, Finance & Analytics Club (2020-21)

Leadership	 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	 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

Department Under Graduate Committee Nominee, Chemical Engineering (2020-21)

Objective	 Advise students about their curriculum and academic opportunities in the Chemical Engineering Department Monitor the progress of academically weak students and handle any academic problem faced by students
Initiatives	 Organise industrial trips and programming sessions for 150+ students to benefit them in core opportunities Offering core projects in a way that is time effective for professors & bridges the gap b/w students and dept

Student Guide, Counselling Service Team (2019-2020)

- Guided and mentored 4 freshman students in acclimatising to the environment of the institute
- Helped them with their academics by arranging meetings with their mentors and maintaining a good rapport
- 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 **Senior Web Executive, Udghosh** (2019-2020)
- Created and maintained the database using Google Firebase for the official website of Udghosh with 10 people

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