

EDUCATIONAL QUALIFICATION			*after 5th semester
Year	Degree	Institution	Score
Present	B.Tech. Chemical Engineering	Indian Institute of Technology Kanpur	7.85* CPI
2017	AISSE	Nalanda Academy, Kota	85.4%
2015	AISSE	S.R. Public School, Kota	10.0/10.0
SCHOLASTIC ACHIEVEMENTS			
<ul style="list-style-type: none"><li>Attended <b>VIJYOSHI CAMP</b>, mentored by Nobel Laureates, conducted by IISc Bangalore</li><li>Awarded <b>Kishore Vaigyanik Protsahan Yojana (KVPY)</b> Fellowship, DST, Government of India</li><li>Achieved <b>11th rank</b> in Indian National Earth Science Olympiad, Geological Society of India, Govt. of India.</li><li><b>National Talent Search Examination (NTSE)</b> first stage qualified, NCERT, Government of India</li><li>Attended Training Camp of Indian National Earth Science Olympiad, Geological Society of India, Govt. of India</li></ul>			<div>2016</div> <div>2015</div> <div>2015</div> <div>2015</div> <div>2015</div>
PROJECTS			
<ul style="list-style-type: none"><li><b>Genetic theory of code-switch evolution</b> (Prof. Mayank Singh, CSE Department, IIT Gandhinagar)</li><li>Adapted with the state-of-the-art technologies used in <b>Sentence Simplification</b> to later work on code-mixed data</li><li>Operated <b>LaBSE</b>, a pre-trained multilingual <b>s-bert model</b>, to generate sentence embedding of initial code-mixed data</li><li>Utilised <b>Genetic Algorithm</b> to optimise code-mixed sentences using bilingual constraints like <b>Free Morpheme</b></li><li><b>Text-Based Analysis of Financial Constraints</b> (Prof. Suman Saurabh, IME Department, IIT Kanpur)</li><li>Objective was to quantise <b>Financial Constraints</b> and study its impact on small-cap companies in Indian market</li><li>Used NLP techniques like <b>Tokenisation</b>, <b>Lemmatisation</b>, processed over <b>400</b> machine-readable annual reports of firms</li><li>Differentiated between <b>equity</b>, <b>debt</b>, <b>private-placement focused delay</b> of investment by finding specific words in data</li><li><b>Stock Price Prediction using LSTM network</b> (Self Project)</li><li>Optimised an LSTM network to predict stock prices using Convolutional 1D layer, Bidirectional LSTM and Dense Layers</li><li>Improved the mean absolute error form <b>0.94</b> using only LSTM network to <b>0.66</b> working on seven years of data</li><li><b>RNA Gene Expression Data Analysis using PCA</b> (Self Project)</li><li>Identified the Adenocarcinoma tumour and remove neuroendocrine tumour using PCA (Principal Component Analysis)</li><li>Applied K-Means Clustering algorithm to analyse the effect of interference in Pancreatic Adenocarcinoma tumours</li><li><b>Trading Strategies and Backtesting</b> (Sachin Angural, Finance Discussion Group, IIT Kanpur)</li><li>Learnt about various strategies like Momentum and Pairs Trading various KPIs and technical indicators</li><li>Formulated strategies to optimise a portfolio by backtesting using python and historical data</li><li><b>Website Development of Chemical Engineering Dept.</b> (Prof. Rahul Mangal, CHE Department, IIT Kanpur)</li><li>Revamped existing <b>Website of Department of Chemical Engineering</b>, IIT Kanpur using HTML and CSS</li><li>Designed the Front-End keeping in mind the user interactivity with website and hence improving user experience</li><li><b>Destroyer T-360</b> (Prof. Mohit Law, Mechanical Engineering, IIT Kanpur)</li><li>Developed a Ballistic Tank conceptualised on Hand-Crack mechanism that could change its azimuth and elevation</li><li>Constructed the plan on AutoCAD, used 3-D printed products, how do you know coding and basic machining</li><li>The firing mechanism of the tank was voice controlled which used IOT components: HC – 05 Bluetooth module</li></ul>			<div>Sept'20-Ongoing</div> <div>Jul'20-Aug'20</div> <div>Jun'20-Jul'20</div> <div>Jun'20-Jul'20</div> <div>Dec'19-Jan'20</div> <div>Aug'19-Feb'20</div> <div>Aug'19-Nov'19</div>
TECHNICAL SKILLS			

## POSITION OF RESPONSIBILITY

### Coordinator, Finance & Analytics Club (2020-21)

Leadership	<ul style="list-style-type: none"><li>• Lead a team of <b>25 members</b>, managed FB group of <b>2.6K members</b> &amp; a <b>budget of 95K</b> to promote finance</li><li>• Conducted projects, discussion talks, seminars and workshops on various fields in finance and analytics</li></ul>
Initiatives	<ul style="list-style-type: none"><li>• Organised <b>month long workshop</b> on Algo Trading, ML in Finance &amp; Derivative Markets, <b>600+ participated</b></li><li>• Organised <b>five, 2-month long summer projects</b> on various innovative methods and techniques in finance</li></ul>

### Department Undergraduate Committee Nominee, Chemical Engineering Dept.(2020-21)

Objective	<ul style="list-style-type: none"><li>• Advise students about their curriculum and academic opportunities in the Chemical Engineering Dept.</li><li>• Monitor the progress of academically weak students and tackle any academic problem faced by students</li></ul>
Initiatives	<ul style="list-style-type: none"><li>• Organise industrial trips and programming sessions for <b>150+ students</b> to benefit them in core opportunities</li><li>• Offering projects in a way that is time effective for professors and bridges the gap b/w students and dept.</li></ul>

### 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**

## EXTRA CURRICULARS

- Won a **Silver Medal** at inter hall badminton competition (Inferno), 2019
- Completed **Hacktober Fest 2019**, created plugin for personal assistant for macOS/LINUX telling user's current location