EDUCATIONAL QUALI	DUCATIONAL QUALIFICATION		
Year	Degree/Certificate	Institute	CPI/%
2018 - Present	B.Tech. Chemical Engineering	Indian Institute of Technology Kanpur	8.2
2017	AISSCE	Nalanda Academy, Kota	85.4%
2015	AISSE	S.R. Public School, Kota	10.0/10.0

## **SCHOLASTIC ACHIEVEMENTS**

- Awarded the Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship by the Department of Science and Technology, GOI
- Achieved an All India Rank 11 in Indian National Earth Science Olympiad conducted by Geological Society of India, GOI

INTERNSHIP EXPERIENCE		
ZEVI.AI   NL	EVI.AI   NLP Engineer Intern   Advanced AI Team July'21-Ong	
OBJECTIVE	• Construct an In-Site search engine solving the conversion problem (increase purchases) for online shopping	
STRATEGY	<ul> <li>Accessed user search &amp; store product data of several stores with 210-450 variables for exploratory data analysis</li> <li>Developed ngram queries &amp; labels, embedded them using transformer &amp; tracked 10+ ML models for classification</li> <li>Moved classification search to AWS-Lambda &amp; created autocomplete &amp; spell-checker modules to enhance search</li> </ul>	
RESULTS	• Reduced latency by over 70% to < 200 ms. Improved the test accuracy for machine learning model by over 60%	

RESEARCH EXPERIENCE		
Genetic theory of code-switch evolution (Prof. Mayank Singh, CSE Dept., IIT GN) (Publication awaited)  Sept'20-Ongoing		
OBJECTIVE	• Generate code-mixed sentences using English and corresponding Hindi sentences using Genetic Algorithm	
STRATEGY	<ul> <li>Formulated initial population of 19780 code-mixed sentences by transliteration (Devanagari to Roman) &amp; switch</li> <li>Translation for mutation were incorporated using googletrans, crossover was implemented using a word-aligner</li> <li>Operated the GA over 100 generations for each sentence, LaBSE transformer was used as embedder for selection</li> </ul>	
RESULTS	• Perplexity of our model came out to be 4098, beating the Microsoft April'21 results by a difference of 52 points	

Text-Based Analysis of Financial Constraints (Prof. Suman Saurabh, IME Department, IIT Kanpur)

July'20-Aug'20

- Objective was to quantise the financial constraints and study their impact on small-capital companies in the Indian market
   Used NLP techniques like tokenisation and lemmatisation to process over 400+ machine-readable annual reports of firms
- Critiqued between the equity, debt, private-placement focused delay of investment by finding 180+ specific words in data

• Critiqued between the <b>equity, debt, private-placement</b> focused delay of investment by finding <b>180+ specific words</b> in data

LEADERSHIP POSITIONS			
Coordinator   Finance & Analytics Club April'20-April'21			
LEADERSHIP	<ul> <li>Lead a team of 25 members, managed FB group of 2.6K members &amp; a budget of 95K to promote finance</li> <li>Conducted projects, discussions, competitions and workshops on various fields in finance and analytics</li> </ul>		
INITIATIVES	<ul> <li>Executed month-long workshops on Algo Trading, ML in Finance &amp; Derivative Markets with 650+ participated</li> <li>Organised 5 summer and 2 winter projects ranging from predicting stock prices to the fundamental analysis</li> <li>Administered FinFest with finance-related clubs of IIT B, K, D, R, G &amp; BHU, which consisted of 2 workshops, 2 competitions with prizes worth INR 1.8 lakhs &amp; many talks by financial experts from Angel Broking, AlphaBeta</li> <li>Associated with 10+ organisations like WazirX, CareerBright, Finlatics for market simulation courses &amp; projects</li> <li>"Demystified Jargons" to simplify complex terms &amp; "Intuitive videos" to explain historical financial episodes</li> </ul>		
IMPACT	<ul> <li>Encouraged the growth of financial literacy, investing and risk management amongst the campus community</li> <li>Introduced a Pan-IIT Crypto trading competition influencing the campus community towards crypto-currency</li> </ul>		
Student Nominee   Department Undergraduate Committee   Chemical Engineering April'20-Ongoing			

• Advised students about their curriculum and monitored the progress of academically weak students of the department

EXTRACURRICULAR ACTIVITIES	
SOCIAL	<ul> <li>Student Guide: Mentored 4 freshman students in acclimatising to the environment of the institute</li> <li>Tech. Head, Department of Chemical Engineering: Designed and revamped existing website of the dept.</li> </ul>
MANAGERIAL	<ul> <li>Secretary, Games &amp; Sports Council: Scheduled, supervised &amp; judged Udghosh &amp; inter-hall badminton matches</li> <li>Counselling Service: Coordinated orientation program for 900+ newcomers along with a team of 175 student</li> </ul>
SPORTS	• BADMINTON: Won 2nd place at inter-hall badminton competition (Inferno) at IIT Kanpur, 2019