YEAR	QUALIFICATION	INSTITUTION	PERFORMANCE		
2019	B.Tech (Electrical Engineering + Computer Science and Engineering)	Indian Institute of Technology, Kanpur	8.1/10.0		
2014	Class XII (CBSE)	Aklank Public School, Kota	93.6%		
2012	Class X (ICSE)	City Montessori School, Gomti Nagar, Lucknow	97.8%		
SCHOLASTIC ACH	HIEVEMENTS				
Achieved AIR	- 589 (in common merit list) in JEE – (A	dvanced)	201		
Secured AIR -	1649 in JEE – (Mains) from among 1.5 r	million candidates	2014		
Awarded KVP	Y Fellowship ; Achieved AIR - 452 out of	f 40,000 students, and offered a scholarship of $\stackrel{ extsf{3}}{ extsf{3}}$ 80,000	per annum 2 <i>01</i> 4		
Ranked amon	gst the top 1600 students in the Nation	nal Talent Search Examination 2010, conducted by NCE	RT 2010		
NTERNSHIPS					
Qualcomm Har	dware Development Centre, Bangalo	ore	May - July 2017		
Background	Worked in the Camera Hardware se	egment towards reducing power consumption in the in	nage processing pipeline		
Process Achievements	 Implemented a US patented (pending approval) module to reduce computation and power used Looked at multiple scheduling algorithms for usage in the module and compared performances on PPA metrics Integrated the designed module into existing SOC and compared power consumption of the two pipelines Received a Pre-Placement Offer from the company. The module produced an average ~ 10% power reduction 				
	 Improved the scheduling algorithm 	utilized, pushing down the area and power consumpt	ion of module		
POSITIONS OF R	ESPONSIBILITY				
Chairperson, St	udents' Senate, IIT Kanpur (elected)		March 2018 - Presen		
Leadership	Leader of the chief student legislative body of IIT Kanpur				
	• Represent 6800 students in the Academic Senate; directly monitor the work of 19 student nominees to the 6				
	Academic Senate subcommittees governing academic, disciplinary and scholarship rules and curriculum				
	Responsible for Chairing the monthly meetings of the 60 senators elected by the student body				
	Responsible for the management of a fund of Rs 250,000 dedicated to promoting novel activities in campus Industrial and 2 standing only acquired to a form of the control of t				
Initiatives	 Introduced 2 standing sub-committees focused separately on UG and PG issues to streamline Senate functioning Introduced financial reforms for the semi-autonomous festivals, allowing greater control over festival finances 				
	Revamped the Gymkhana Calendar to distribute workload and improve the conduction of inter-hall competitions				
	• Initiated Departmental Mentorship Societies to facilitate Faculty–Student interaction and mentorship				
	Coordinated the handling of appeals against termination of 124 students with 79 getting reinstated				
Administrative	 Coordinated the handling of appeals 	s against termination of 124 students with 79 getting r	einstated		

- As Parliamentarian, Students' Senate (separately elected), drafted amendments to the Constitution, on various executive reforms
- Drafted appendices to the Constitution on the Rules & Procedures of the Senate and the Constitution of the COSHA
- · Lobbied for the merger of two major executive councils of the Gymkhana and laid down the vision for the newly formed council
- Reformed institute policy, with the Academic Senate allowing acceptance of Double Major students in the 8th Semester

PUBLICATIONS			
Near-field Aco	ustic Source Localization using Spherical Harmonic Features	July 2019	
Journal	• Accepted in the IEEE Transactions on Audio, Speech and Language Processing (Impact Factor of 3.531)		
Process	Novel features developed for usage in CNNs for nearfield source range estimation		
	• Designed signal-invariant and directional-independent features for range estimation in reverberant conditions		
Radial Filter Design Using Kaiser Window Polynomials for Speech Source Separation July 1			
Conference	• Accepted in the International Conference on Signal Processing and Communication, 2018 (Median H-index 10)		
Process	Novel Filter Design for Spatial Source Enhancement and Noise Filtering		
	• Designed a novel family of polynomials, Kaiser Polynomials, which matched the specifications for the task		
	• Designed filters beat state of the art filters in standard metrics of source separation such as PESQ, LSD and SDR		

PROJECTS

Predicting customer churn in the telecom sector (*Project under Prof. Faiz Hamid*)

May – July 2016

- Built predictive models (ANN, Naïve Bayesian) on 70,000 samples to tackle the problem of client churn in the telecom sector
- Determined the critical factors affecting churn and developed an action plan for customer retention

EXTRA-CURRICULAR ACTIVITIES			
	 Organized various Professional Nights, Folk Dances, Talks and Socio-Political Debates in a 15 member PF 		
Managerial	• Secured funding from the Israel Embassy for the performance of 2 ensemble artists at Antaragni 2015		
	• Conducted Elections for Hall Executive Committee, with an electorate of 650 students, in the Hall of Residence II		
Journalism	Highlighted the need for disabled friendly infrastructure at the institute through the campus newsletter		
Recreation	Active member of the English Literary Society - Avid reader and irregular poet		
	• Regular in the Card and Board Games club with a fascination for Catan and Resistance: Avalon		