

ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI / %
2020 - Present	B.Tech	Electrical Engineering, IIT Kanpur	7.1/10.0
2020	CBSE(XII)	Milton Public School, Agra	88.2%
2018	CBSE(X)	Saraswati Vidya Mandir, Etah	97.4%




SCHOLASTIC ACHIEVEMENTS

- Secured Category **Rank 719** in **JEE Advanced '20** (1.6L+ candidates) and **Rank 1643** in **JEE Mains '20** (10.23L+ candidates)
- Achieved Category **Rank 34** and **Girls Rank 7** (top 99.9 percentile) in the **State level UPSEE 2020** exam out of 0.75L+ candidates
- Received the **Academic Recognition Award** for School **Rank 1** and **District Rank 5** in X Standard, with an impressive 97.4% score
- Successfully completed **5+ projects** in **data mining & machine learning** domain, analysing data and performing customer analysis

PROFESSIONAL EXPERIENCE

Machine Learning Research Internship Bosch Global Software Technologies		[May'23 - Jul'23]
Objective	• Utilize Generative Adversarial Networks (GANs) to generate data for simulation and training of AI-driven systems	
Strategy	• Explored unsupervised learning , neural nets, reinforcement learning, feature engineering and data imputation in ML • Implemented CGAN, WGAN, DCGAN on Cifar-10, MNIST & other datasets, achieving accuracy rates exceeding 90% • Scrutinized a GAN-focused paper, interpreting 10+ datasets , exploring discrete/continuous models & NRGAN variants	
Impact	• Implemented 'Data-Driven Modelling of Noise' using CGANs for band thermal & shot noise using STFT representation • Applied GANs to 30+ datasets , showcasing their potential to generate intricate noise patterns via data-driven models • Identified future areas of research in GANs including stability, output diversity, evaluation methods & privacy risks	

KEY PROJECTS

SURGE - Wind Power Prediction using Machine Learning Algorithms IIT Kanpur 		[Dec'21 - Jul'22]
Mentor: Prof. M.V.Gururaj, Department of Electrical Engineering, IIT Kanpur * <i>research paper to be published</i>		
Objective	• Develop model to forecast wind power generation for power system reliability through supply-demand equilibrium	
Approach	• Conducted thorough analysis of datasets to identify critical parameters of wind, discerning their influence on output • Studied the various data cleaning and preprocessing techniques to analyze datasets and correlation in attributes • Applied various ensemble methods (Random Forest, Gradient Boosting) & ANN to build models with 91% accuracy	
Analysis of Institutional features of a Business Corporations Course: Introduction to Corporations 		[Jan'23 - Mar'23]
Mentor: Prof. Rahul Verman, Department of Industrial and Management Engineering, IIT Kanpur		
Objective	• Explored various institutional features of a business corporation including corporate responsibility, corporate viel	
Approach	• Studied about the market versus state debate of organization by taking cases such as Bhopal Gas Leak & Vodafone • Researched the aspects of corporations, governance & laws, policy implications & consequences for stakeholders • Performed detailed analysis of Shell Companies using DHFL, Tiger Global & GST fraud cases, and Business laws	
IPO Analysis using Forward Looking Statements Finance Club, IIT Kanpur 		[May'22 - Jul'22]
Objective	• Analyze and grade an Initial Public Offering based on Forward-Looking Statements and fundamental analysis	
Approach	• Developed a thorough understanding of valuation, leverage, liquidity ratios and their utilities in fundamental analysis • Deployed Tone Analysis to capture IPO-related sentiments expressed in forward-looking statements of firm's DRHP • Leveraged web scraping to extract the IPO details from multiple financial websites and arrive at suitable valuation	

POSITION OF RESPONSIBILITY

Assistant Coordinator Institute Counselling Service, IIT Kanpur		[Apr'22- May'23]
Leadership	• Led a 3-tier team of 20 Members, 450+ Student Guides & Mentors, in a 10-day long Orientation for 1200+ freshers • Managing a budget of ₹33L+ to provide emotional, academic as well as financial support to the student community • Conducted " Hakuna Matata " event with footfall of 8000+ students on Diwali, fostering " Home away from Home "	
Initiative	• Established a new Web division & Creative division within the team structure, managing 3-tier team of 12 members • Collaborated with SPIF for seminars and Suicide Prevention Gatekeeper Training Program for students & faculties • Introduced Sex Education & Sexual Diversity sessions as part of the Orientation, aimed at increasing awareness	
Impact	• Guided 100+ students to move out of Academic Probation & Warning through consistent mentorship and guidance • Facilitated over 3000+ counselling sessions , collaborating with counselors for comprehensive student support • Accelerated Instagram & Facebook reach by 344%, 2X followers growth & observed 200% jump in impressions	

EXTRA-CURRICULAR ACTIVITIES

Mentorship Endeavours	UnchaAi JEE Mentor • Paid Tutor in UnchaAi, a tech-ed startup by IITK & NITP alumni, providing mentorship platform to JEE aspirants • Mentored aspirants with PCM doubts, designed customized timetables, metrics to track performance periodically		[Jan'21 - Aug'21]
Managerial Operations	• Co-founded the Health & Hygiene Wing, CWC for health awareness, hygiene, and to promote sexual wellness talks • Year-long active teacher in Prayas, CWC to educate marginalized kids , promoting the notion of ' Education for All ' • Assisted Raktarpan in conducting 3 Blood Donation camps (800+ donations) in collaboration with Bloodconnect • Worked in a 4-tier team of 100+ Election Officers , to ensure smooth conduction of the biggest Students' Elections		
Cultural Activities	• Achieved 1st position in competition "Tasweer Azadi Ki" by Amar Ujala Newspaper, celebrating Independence Day • Awarded the "Dr. Achint Mathur Smriti Award" for outstanding dance performance in 40th Little Ipta Camp , 2015 • Organized workshops of art techniques like coffee painting, calligraphy and origami as Secretary, Fine Arts Club		