ACADEMIC QUALIFICATIONS

| Year | Degree/Certificate | Institute | CPI/% |
|--------------|------------------------------|--|----------|
| 2020-Present | B.Tech(Chemical Engineering) | Indian Institute of Technology, Kanpur | 7.5/10.0 |
| 2020 | CBSE (XII) | LBS Sr. Sec. School, Kota | 94.4% |
| 2018 | CBSE (X) | DAV BORL Public School, Bina | 95.8% |

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank 1830 in Joint Entrance Examination (JEE) Mains 2020 among 1.3 million candidates
- Secured All India Rank 2828 in Joint Entrance Examination (JEE) Advanced 2020 among 0.2 million candidates
- Granted Kishore Vaigyanik Protsahan Yojna (KVPY) 2020 fellowship for securing an AIR 985 by Government of India

WORK EXPERIENCE

Project Intern | Reliance Industries Limited, Jamnagar Manufacturing Division (Received PPO)

(May'23- Jun'23)

| Objective | • Detailed analysis and literature survey of methods/techniques available for the production of green hydrogen |
|-----------|---|
| | • Analysed different theses, research papers, and SOTA electrolysis models to determine the most efficient one |
| Strategy | • Modeled Proton Exchange Membrane (PEM) Electrolyser using Aspen Custom Modeler and ProMax |
| | • Evaluated the modelling softwares using sensitivity analysis and submitted a detailed report with a survey |
| Result | • Achieved a increase of 14+% in the green hydrogen production across PEM electrolysis modelling methods |

Research Assistant | The Wharton School of the University of Pennsylvania

(Feb'24- Present)

| Objective | Studying the effect of smartphone ban across various universities across india | |
|-----------|---|--|
| Strategy | • Conducting exhaustive survey and managing various coordinators across 18+ colleges and 40,000+ students in India | |
| | • Using various data transformations to keep check on sampled data and increased the response of the survey by 20% | |
| Result | • We look forward to publishing all the results after the baseline survey analysis is complete across all the colleges. | |

RESEARCH EXPERIENCE

Research Intern | Automated segmentation of MR images with Deep Learning

(May'22-Aug'22)

Mentor: Prof. Bapi Raju, Department of Computer Science Engineering, IIIT Hyderabad

| Objective | • Improve and refine the performance of U-Net like networks, with the use of parallel decoders which along with |
|-----------|---|
| | performing the mask predictions also perform contour prediction and distance map estimation |
| Strategy | • Breadth-wise and depth-wise exhaustive literature review of existing developments in Brain image segmentation |
| | • Processed IBSD Data-set where manual annotation data of 14 sub-cortical structures done by expert radiologist |
| | • Implemented state of the art algorithms and compare in terms of its computational time and efficiency |
| Result | • Bypassed the Dice (0.83) score of current state of the art algorithms (M-net) using the Psi-net model |

COMPETITIONS & FELLOWSHIPS

Dr. Reddy's ASPIRE - The Ultimate Case Study Challenge \mid Hyderabad

(Aug'23 - Sep'23)

(Secured an exclusive Pre-Placement Interview as recognition for exceptional performance in the high-stakes Case Study Competition)

Result

• First Runner-up, ranking among the 5500+ teams out of over 17000+ students from across India, after excelling in a rigorous selection process that included aptitude tests, AI interviews, and case study evaluation and mentor-ship round

Mentee | Intern Engage 2022 | Microsoft

☑ ☐ ۞ (Apr'22 - May'22)

(Secured an exclusive Pre-Internship Interview offer as recognition for exceptional performance during the program)

| Objective | • Demonstrating Recommendation and Search Engine algorithms through a Web-app or Mobile-app | |
|-----------|--|--|
| Strategy | • Adopted agile development methodology to build a personalized user interface of a web-streaming app | |
| | • Created seamless UI using NextJS flow-typed in TypeScript with Material UI styled with TailwindCSS | |
| | • Integrated functionalities like preference form, user List and Favourites using Firebase Real-time Database | |
| Result | Displayed Genre, Content, Keyword based Recommendations on the basis of user activity on Web-app | |
| | • Dealt with Cold-Start issue and avoided plateauing of user interests by shuffling and clipping recommendations | |

KEY PROJECTS

Mergers & Acquisitions (Merger of JSW and SIS-COL) | Finance & Analytics Club, IIT Kanpur

(May'22- Jul'22)

- Detailed analysis and data finding of the merger by exhaustive literature review and its impact on their operational performance
- Analyzed types of synergy, economies of scale and scope, cost of equity and debt and calculated terminal value
- Followed valuation approaches like income, market, asset single period capitalization and DCF valuation
- Evaluated the merger using EPS Accretion/Dilution test and used football field relative valuation and learnt about LBOs

POSITIONS OF RESPONSIBILITY

Assistant Placement Coordinator | Students' Placement Office (SPO), IIT Kanpur

(Mar'22-Mar'23)

Felicitated with certificate of appreciation by the **Deputy Director**, IIT-K, for recognition as Assistant Placement Coordinator, IIT Kanpur

| | • Led 3-tier team of 180+ members to conduct Placement and Internship Drive for 1500+ and 1000+ students | |
|-------------|---|--|
| Leadership | • Mentored 70+ fellow coordinators, fostering a collaborative environment that enhanced placement effectiveness | |
| | • Developing corporate liaisons with 60+ corporate firms to ensure their participation in the Internship Drive | |
| | • Formulated a sector-specific startup database, cultivating connections with 100+ companies to fortify opportunities | |
| Initiatives | • Helped 1300+ students by collaborating with HackerRank & MyAnalytics School for test/interview preparation | |
| | • Strategized the first hybrid placement drive, accommodating 1000+ company professionals and 1500+ students | |
| Impact | • Enhanced awareness among 1000+ students regarding intern preparation by organizing insightful sessions | |
| | · | |

SOCIAL IMPACT

COVID Support Mission Volunteer | Alumni Association, IIT Kanpur

(Apr'21-May'21)

- Acted as bridge between patients/needful people available resources like medicines, hospital beds and oxygen cylinders
- Involved with 235+ IITK Alumni and 2000+ people comprising of hospital staff, patients and other people needing help