

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2021 - Present	B.Tech	Indian Institute of Technology Kanpur	8.45/10
2021	CBSE(XII)	Maharishi Vidya Mandir, Chennai	97.0%
2019	CBSE(X)	SBOA school and Junior College, Chennai	97.6%

Scholastic Achievements

- Secured **All India Rank 3353** in **Joint Entrance Examination Advanced 2021** among the 1.5 Lakh candidates (2021)
- Secured **All India Rank 4733** in **Joint Entrance Examination Mains 2021** among the 11.47 Lakh candidates (2021)
- Received **KVPY fellowship** with **All India Rank of 1633** in **KVPY SX stream** held by **IISC, Bangalore** (2021)

Work Experience

SURGE Internship | Faculty Advisor: Dr.Sathesh Mariappan

Department of Aerospace Engineering, IIT Kanpur

(May'23-Jul'23)

Objective	Developing a novel solution model for acoustic equation with damping using Physics-informed neural network
Approach	Derived the analytical solution of the partial differential equation and generated training and testing datasets Developed a model for the acoustic equation and investigated self-adaptive methods for improved modelling Performed hyperparameter tuning and used optimisers like L-BFGS & adams to obtain the best fit model
Result	Minimized the Mean Absolute Error to 0.279 , plotted & compared the results with real data using matplotlib

Technology Intern | Radinno Labs | Mentor: Mr.Daniel Abraham

(Jun'23-present)

Objective	Collecting data from a telematics sensor, integrating it with an IOT platform and using it to visualize the data
Approach	Configured the sensor telemetry data into thingsboard server and creating dashboards to display all the data Integrated the server with PostgreSQL to store all the telemetry using different rule chains in a database Developed new custom widgets to help visualize the route using a data-driven path animation widget
Result	Implemented robust data storage , created dynamic dashboards using 5+ widgets to gain customer insights

Key Projects

Machine Learning : Behind the Curtains | Stamatics Club, IIT Kanpur

(Apr'22-Jul'22)

- Studied mathematical intuition behind machine learning algorithms such as **linear regression** and **artificial neural networks**
- Implemented **logistic regression** and **neural networks**, including **back propagation** algorithms using **numpy** on python
- Employed **K-means Clustering algorithm** from **scratch** to train the **unsupervised model** on **clustering Iris dataset**

Positions of Responsibility

Assistant Placement Coordinator, Students' Placement Office, IIT Kanpur

(Apr'23-present)

Leadership	Coordinating the internship drive for 1000+ students and placement drive for 1500+ students in a 3-tier team Spearheading a team of more than 70+ members handpicked for coordinating the internship & placement drive Developing corporate connections with 50+ corporate giants for Internship and Placement drive 2023-2024 Coordinated in institute's first Career fest ' Samvardhan ' to cater needs of 15+ companies and 1000+ footfall
Initiative	Helped 2000+ students by collaborating with Prepleaf & MyAnalyticsSchool for tests & interview preparation Introduced a series of Roadmap to placements for 10+ sector wise job profiles benefiting 1000+ students
Impact	Enhanced awareness of the preparation material present on the Students Placement Office's website by 45% Successfully attracted 5+ startups like Audify and GIVA to register for the Internship season of 2023-2024 Assisted in Placement drive 2022-2023 achieving best ever placement record with 1200+ offers

Secretary, International Relations Wing, Academics and Career Council, IIT Kanpur

(Jun'22-Apr'23)

Leadership	Appointed as the direct PoC for multiple Semester Exchange students during their stay at IIT Kanpur
Initiative	Conducted sessions like 'MBA abroad'& 'Semex101' for benefit of more than 600+ pre-final & final year students
Impact	Facilitated flagship events like IRS'23 & SRC'23 with footfall of 1000+ students from all over India

Social Impact

Education Mentor, Chudar Education (Non Governmental Organisation)

(May'23-Jul'23)

Initiative	Created application-focused mathematics learning modules for underprivileged students in grades 6-8 Implemented creative and interactive methodologies to enhance student engagement and understanding
Impact	Integrated the modules into educational programs, benefiting 600+ underprivileged students annually Received TN government's approval and commendation for the quality and effectiveness of the modules

Extra-Curricular Activities

Mentorship	Acted as the point of contact of 6 freshmen and guided in acclimatizing to the Institute environment Spearheaded 5+ freshers in Inter-Hall Script Writing competition in Galaxy'23 for the pool Kshtriyas
Volunteering	Taught 8+ underprivileged students A level English course to improve their language & communication skills Volunteered to help in conduction of Blood Donation camps with 200+ footfall during summer of 2023
Outreach	Actively took part in 3 alumni networking events catering to the needs of 50+ alumni during their stay Helped in connecting over 500+ sophomores with 200+ alumni through Alumni Buddy Program for guidance
Miscellaneous	Selected for Student-Scientist interaction at SDSC-SHAR, ISRO among 600+ students in highschool Coordinated with the Counselling Service, IITK in conduction of Orientation 2022 for 1200+ freshers