

EDUCATIONAL QUALIFICATIONS

Year	Qualification	Institute	Performance
2021-2025	B.Tech - Mechanical Engineering Minor – English Literature	Indian Institute of Technology Kanpur	8.0/10.0
2021	Class XII, Maharashtra State Board	Pace Junior Science College, Nerul	95.2%
2019	Class X, CBSE Board	D.A.V Public School, Nerul	94.0%

SCHOLASTIC ACHIEVEMENTS

• Secured All India Rank 2666 in JEE Advanced 2021 and All India Rank 5044 in JEE Mains 2021 amongst 9.2 lakh candidates	2021
• Secured All India Rank 102 in All India Open Mathematics Scholarship Examination by IPM among 50K+ candidates	2020
• Received the Academic Excellence Award for exceptional academic performance in the 2020-21 academic session	2021

WORK EXPERIENCE

Product Development Intern Medantrik (MedTech Start-Up)	Jun'24-Aug'24
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Received Pre-Placement Offer (PPO) for exceptional performance

Objective	• Engineer cost-effective portable lung diagnosis device , driving technical solutions with CTO for successful market launch
Approach	• Calibrated device to map RPM to breath flow rate using prototype at National Wind Tunnel IITK , informed 5+ research papers • Built a hospital prototype and interface, collecting 10+ datapoints from 200+ patients , boosting algorithm accuracy by 12% • Spearheaded end-to-end design of health camps with 1K+ footfall and represented team in ASEAN-India ScaleHub 2024, Bali
Impact	• Co-invented patent-pending device; projected sales of ₹30cr revenue (50K units) by Apr, launch expected by Sept (Delhi-NCR) • Generated lung report (19 parameters+4 graphs) via proprietary algo, classifying lung health into 4 categories (96% accuracy)


Product Management Intern Foruppo (Autonomus Start-Up EcoSystem)	May'24-Jun'24
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Product 1: Wizoona (Co-creator)	• Pioneered India's 1st community-led holistic education startup to empower young adults with comprehensive life education • Crafted value proposition, customer segmentation, GTM strategy of 'Wizoona' ensuring customer acquisition and retention
Product 2: Urrban Tailor	• Led Urrban Tailor's (personalized outfit selector) development, concept to Product Hunt launch, managing an 8-member team • Developed a dynamic selection framework across 5 dimensions on wordpress , enhancing user interaction and personalization

KEY PROJECTS

Yoga Asana Prediction and Feedback Generation Dr. Tushar Sandhan, EE, IIT Kanpur 	Jan'24-May'24
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Objective	• Enhance self-guided yoga practice with a deep learning model , classifying yoga asanas and providing real-time feedback
Strategy	• Engineered hybrid CNN-LSTM model capturing spatial and temporal features, trained on 88 videos from diverse datasets • Utilized OpenCV for video processing, MediaPipe for pose landmark extraction, Keras with TensorFlow for model training • Conducted angular vector analyses to compare user poses with ideal poses, and implemented a feedback mechanism
Result	• Classified videos into 6 asanas , achieving a framewise accuracy of 99.05% , with polling improving accuracy to 99.66% • Enabled precise feedback by demonstrating the closest intermediate poses from input videos; comparing them to ideal poses

Brand Repositioning Strategy (Course Project) Prof. Amit Shukla, IIME, IIT Kanpur 	May'24-Jul'24
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Objective	• Redefine and strengthen boAt's brand positioning to better align with emerging markets and evolving consumer preferences
Strategy	• Analyzed boAt's value chain; identified 5 key levers to drive business growth amidst 3 rivals dominating 50% market share • Generated insights with 4P, PESTEL, and SWOT framework and prioritised them using RICE and MoSCoW frameworks
Outcome	• Crafted strategic video advertisement that elevated brand perception, validated through insights from 80+ survey responses • Formulated a brand extension concept for boAt, launching a musical instrument product line to target adjacent markets

Machine Learning Mini Projects Dr. Purushottam Kar, CSE, IIT Kanpur	Jan'24 – May'24
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XORRO	• Derived a linear mathematical simplification modeling a XORRO PUF with 8 multiplexers , using Khatri-Rao product • Developed a linear ensemble model built from SVC and logistic regression methods, achieving highest accuracy of 99.33%
Hangman	• Implemented information-theoretic algorithms greedily maximizing the number of nodes, resulting in entropy reduction • Trained a 100% accurate decision tree model on a dictionary with 6K+ data points , effectively simulating Hangman gameplay
Sensor	• Developed a ridge linear model calibrating the voltages recorded by the ozone and nitrogen dioxide sensors accurately • Reduced the MAE by using Kernel Ridge non-linear model with an adaptive learning rate & ϵ -insensitive loss function

LEADERSHIP EXPERIENCE

Coordinator, Dance Club (KOS) IIT Kanpur	May'23 – May'24
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Felicitated with Certificate of Appreciation by the **Director, IIT-K** for recognition as **Coordinator, Dance Club, IIT Kanpur**

Leadership	• Directed a 3-tier team of 50+ in 4 national-level competitions and coordinated 7 campus events with 2K+ average footfall • Managed club finances of INR 1.2L and generated over INR 30K in additional revenue by organizing diverse workshops
Initiatives	• Organized a 7-day Summer Workshop series by tier-1 artist separately in two shifts for 50+ beginners and 30+ team members • Crafted a dynamic 10-minute showcase at the PG Orientation that successfully drew 1.8x more PG students in the club
Impact	• Achieved a historic milestone by becoming the 1st dance team from any IIT to qualify for Indian HipHop Championship finals • Garnered over 12 million+ views and amassed an impressive 40K+ subscriber base on the official Dance Club, IITK YT channel

EXTRA-CURRICULAR ACTIVITIES

Category	Competition	Achievements	Level	Year
Performing Arts: Dance	Inter-IIT Cultural Meet	Led the contingent which secured, • 3rd position in group dance category at IIT Madras • 3rd position in dance battle category at IIT Madras	Inter-IIT	2023
	Antaragni, IIT Kanpur	• 2nd position out of 30+ teams in group dance category • 1st position out of 30+ teams in group dance category	National	2023
		• 3rd position out of 10+ teams in dance battle category		2022
	Thomso, IIT Roorkee	• 3rd position out of 30+ teams in group dance category	National	2022
Social Work	• Mobilized funds to support children's education at Muskurahat Foundation (NGO) earning a merit certificate • Tutored 20 underprivileged children in Math and English of class 5th and 6th through Prayas, IIT Kanpur			2022
	• Conducted Flashmob with sapling distribution on World Environment Day to spread environmental awareness			2023

