

EDUCATIONAL QUALIFICATIONS

Year	Qualification	Institute	Performance
2021-2025	B.Tech - Mechanical Engineering   Minor – Eng 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%

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 session2021

WORK EXPERIENCE

Product Development Internship | Medantrik (MedTech Start-Up)May'24-Jul'24

Received Pre-Placement Offer (PPO) for exceptional performance

Objective	Develop algorithm for <b>portable lung health device</b> , a cost-effective personalized appliance for managing respiratory diseases
Approach	<ul style="list-style-type: none"><li>Calibrated device to map RPM to breath flow rate using prototype at <b>National Wind Tunnel IITK</b>, informed <b>5+research papers</b></li><li>Boosted algorithm accuracy by <b>12%</b> by building hospital prototype and interface, collecting <b>10+ datapoints</b> from <b>200+ patients</b></li><li>Spearheaded <b>end-to-end design</b> of health camps with <b>1K+ footfall</b> and <b>represented team</b> in <b>ASEAN-India ScaleHub 2024, Bali</b></li></ul>
Impact	<ul style="list-style-type: none"><li>Co-invented patent-pending device; projected sales of <b>₹30cr revenue (50K units)</b> by Apr, launch expected by <b>Sept</b> (Delhi-NCR)</li><li>Generated lung report (<b>19 parameters+4 graphs</b>) via proprietary algo, classifying lung health into <b>4 categories (96% accuracy)</b></li></ul>

Product Management Internship | Foruppo (Autonomous Start-Up EcoSystem)May'24-Jul'24

Product 1: Wizoona (Co-creator)	<ul style="list-style-type: none"><li>Pioneered <b>India's 1<sup>st</sup> community-led holistic education startup</b> to empower young adults with comprehensive life education</li><li>Crafted <b>value proposition, customer segmentation, GTM strategy</b> of 'Wizoona' ensuring customer acquisition and retention</li></ul>
Product 2: Urrban Tailor	<ul style="list-style-type: none"><li>Spearheaded <b>8-member team</b> to develop Urrban Tailor, a personalized outfit selector, from concept to <b>Product Hunt launch</b></li><li>Developed a dynamic selection framework across <b>5 dimensions</b> on <b>WordPress</b>, enhancing user interaction and personalization</li></ul>

KEY PROJECT

Yoga Pose Prediction and Feedback Generation | Dr. Tushar Sandhan | EE, IIT Kanpur🔗Jan'24-May'24

Objective	Enhance self-guided yoga practice with a <b>deep learning model</b> , classifying yoga asanas and providing <b>real-time feedback</b>
Strategy	<ul style="list-style-type: none"><li>Engineered hybrid <b>CNN-LSTM model</b> capturing spatial and temporal features, trained on <b>88 videos</b> from diverse datasets</li><li>Utilized <b>OpenCV</b> for video processing, <b>MediaPipe</b> for pose landmark extraction, <b>Keras with TensorFlow</b> for model training</li><li>Conducted <b>angular vector analyses</b> to compare user poses with ideal poses, and implemented a feedback mechanism</li></ul>
Result	Reached <b>99.05%</b> accuracy, boosted to <b>99.66%</b> with polling, classifying videos into <b>6 asanas</b> and providing <b>effective feedback</b>

Forecasting using time-series Analysis | Stamatics, IIT Kanpur🔗May'23-Jul'23

Objective	Develop and compare predictive models for <b>air quality and stock prices</b> using time-series analysis to optimize accuracy
Strategy	<ul style="list-style-type: none"><li>Applied <b>ADF, ACF test, Box-Cox transformation</b> for the stationarity, normality, homoscedasticity on <b>7+time series</b> datasets</li><li>Decomposed a time-series into its trend, seasonality, cyclicity using <b>HP filter</b> and tested stationarity using <b>ADF statistical test</b></li><li>Conducted statistical normality tests and utilized <b>ACF and PACF</b> analysis to determine order of <b>AR and MA models</b></li></ul>
Result	<ul style="list-style-type: none"><li>Achieved a <b>MAPE of 0.0153</b> and <b>98.5% accuracy</b> in predicting Apple INC. stock prices using <b>Auto ARIMA</b> on <b>1405 observations</b></li><li>Reduces prediction errors with <b>ARIMA, SARIMAX models</b>, achieving <b>97.1% accuracy</b> in Beijing air quality forecasting</li></ul>

JP Morgan Chase Co.— Investment Banking | ForageJul'24

Key Highlights	<ul style="list-style-type: none"><li>Analysed and provided targets for <b>Mergers &amp; Acquisition</b> targets a US-based Brewing firm for expansion over a new market</li><li>Performed Data Analysis with a summary of target based on <b>financial statements, bidding process, estimated valuation</b></li><li>Formulated a <b>DCF Model</b> to finalize the offer price to value a target based on financial forecasts and assumptions provided</li><li>Revised the Model for a new bid due to change in circumstances and compared it with <b>competitive bidder</b> for the final price</li></ul>
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Chat With Multiple-PDFs | Self Project🔗Aug'24

Objective	Develop <b>contextually responsive chatbot</b> to answer user queries, extracting and processing text from <b>multiple PDFs</b>
Strategy	<ul style="list-style-type: none"><li>Leveraged <b>PyPDF2, LangChain, FAISS</b> for text extraction, embedding, and retrieval, with <b>OpenAI and Hugging Face models</b></li><li>Designed an <b>interface</b> with <b>Streamlit</b> to support file uploads, handle user queries, and responses generated by the chatbot</li></ul>
Result	Achieved a <b>90% accuracy</b> rate in query responses across PDF document types, processing up to <b>200 pages per document</b>

LEADERSHIP EXPERIENCE

Coordinator, Dance Club (KOS) | IIT KanpurMay'23 – May'24

Felicitated with Certificate of Appreciation by the **Director, IIT-K** for recognition as Coordinator, Dance Club, IIT Kanpur

Leadership	<ul style="list-style-type: none"><li>Directed a <b>3-tier team of 50+</b> in <b>4 national-level competitions</b> and coordinated <b>7 campus events</b> with <b>2K+ average footfall</b></li><li>Managed club finances of <b>INR 1.2L</b> and generated over <b>INR 30K</b> in additional revenue by organizing diverse workshops</li></ul>
Initiatives	<ul style="list-style-type: none"><li>Organized a <b>7-day Summer Workshop</b> by tier-1 artist separately in two shifts for <b>50+ beginners</b> and <b>30+ team members</b></li><li>Collaborated with Antaragni on a climate awareness campaign, reaching an audience of <b>1K+</b> in Kanpur's biggest mall</li></ul>
Impact	<ul style="list-style-type: none"><li>Achieved a <b>historic milestone</b> by becoming the <b>1<sup>st</sup> dance team</b> from any IIT to qualify for <b>Indian HipHop Championship finals</b></li><li>Garnered over <b>12 million+ views</b> and amassed an impressive <b>40K+ subscriber</b> base on the official Dance Club, IITK YT channel</li></ul>

TECHNICAL SKILLS

- Programming Languages:** C++, Python, HTML, CSS, LaTeX, SQL
  - Software & Utilities:** Illustrator, Photoshop, LightRoom, Excel, Canva
- Data Science & ML:** TensorFlow, Keras, NumPy, Pandas, Matplotlib, Scikit-learn, Statsmodels, OpenCV, LangChain, Streamlit

EXTRA-CURRICULAR ACTIVITIES

Performing Arts	Inter-IIT Cult Meet 5.0	<ul style="list-style-type: none"><li><b>3<sup>rd</sup> position</b> in group dance category and <b>3<sup>rd</sup> position</b> in dance battle among <b>20+ teams</b></li></ul>	2023
	Antaragni, IITK	<ul style="list-style-type: none"><li><b>1<sup>st</sup> position</b> in group dance category and <b>1<sup>st</sup> position</b> in dance battle among <b>30+ teams</b></li></ul>	2023
Social Work	<ul style="list-style-type: none"><li>Tutored <b>20 underprivileged children</b> in Math and English of class 5th and 6th through <b>Prayas, IITK</b></li><li>Mobilized funds to support children's education at <b>Muskurahat Foundation (NGO)</b> earning a <b>merit certificate</b></li></ul>		2022

