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| **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 session *2021* | | | | | | | | | |
| **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 **portable lung health device**, cost-effective spirometry test and lung exercises**(₹6K vs.₹2K/hospital test)** | | | | | | | | |
| *Approach* | * Calibrated device to map RPM to breath flow rate using prototype at **National Wind Tunnel IITK**, informed **5+research papers** * Integrated hospital data **(SQL Server)** with GLI metrics, applying **RandomForest** to predict ideal lung health parameters * Oversaw marketing and design for health camps with **1K+ footfall** and **represented team** for **ASEAN-India ScaleHub 2024, Bali** | | | | | | | | |
| *Impact* | * Co-invented patent-pending device; projected sales of **₹30cr revenue (50K units)** by Apr, launch expected; **Sept** (Delhi-NCR) * Generated lung report **(19 parameters**+**4 graphs)** via proprietary algo, classifying lung health into **4 categories** **(96% accuracy)** | | | | | | | | |
| **Product Management Internship | *Foruppo (Autonomus Start-Up EcoSystem)*** *May’24-Jul’24* | | | | | | | | | |
| *Objective* | * Develop innovative products like ‘Wizoona’ and ‘Urrban Tailor’; deliver impactful solutions through strategic planning | | | | | | | | |
| *Impact* | * **Co-creator** of ‘Wizoona’, built **India's first community-led holistic education startup** and set-up pre-launch activities * Created **Value Proposition, Customer Segmentation, GTM strategy** of ‘Wizoona’ ensuring **customer acquisition** and retention * Launched 'Urrban Tailor,' a **SaaS platform**, on **Product Hunt**, leading an **8-member team** from product ideation to execution | | | | | | | | |
| **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 **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* | * Reached **99.05%** accuracy, boosted to **99.66%** with polling, classifying videos into **6 asanas** and providing **effective feedback** | | | | | | | | |
| **Forecasting using time-series Analysis | *Stamatics, IIT Kanpur*** *May’23-Jul’23* | | | | | | | | | |
| *Objective* | * Develop and compare predictive models for **air quality and stock prices** using time-series analysis to optimize accuracy | | | | | | | | |
| *Strategy* | * Applied **ADF, ACF test, Box-Cox transformation** for the stationarity, normality, homoscedasticity on **7+time series** datasets * Decomposed a time-series into its trend, seasonality, cyclicity using **HP filter** and tested stationarity using **ADF statistical test** * Conducted statistical normality tests and utilized **ACF and PACF** analysis to determine order of **AR and MA models** | | | | | | | | |
| *Result* | * Achieved a **MAPE of 0.0153** and **98.5% accuracy** in predicting Apple INC. stock prices using **Auto ARIMA** on **1405 observations** * Reduces prediction errors with **ARIMA, SARIMAX models**, achieving **97.1% accuracy** in Beijing air quality forecasting | | | | | | | | |
| **JP Morgan Chase Co.— Investment Banking *(by Forage)*** *Jul’24* | | | | | | | | | |
| *Key Highlights* | **•** Analysed and provided targets for **Mergers & Acquisition** targets a US-based Brewing firm for expansion over a new market   * Performed Data Analysis with a summary of target based on **financial statements, bidding process, estimated valuation** * Formulated a **DCF Model** to finalize the offer price to value a target based on financial forecasts and assumptions provided * Revised the Model for a new bid due to change in circumstances and compared it with **competitive bidder** for the final price | | | | | | | | |
| **Chat With Multiple-PDFs *(Self Project)*** *Aug’24* | | | | | | | | | |
| *Objective* | * Develop **contextually responsive** **chatbot** to answer user queries, extracting and processing text from **multiple PDFs** | | | | | | | | |
| *Strategy* | * Leveraged **PyPDF2, LangChain, FAISS** for text extraction, embedding, and retrieval, with **OpenAI and Hugging Face models** * Designed an **interface** with **Streamlit** to support file uploads, handle user queries, and responses generated by the chatbot | | | | | | | | |
| *Result* | * Achieved a **90% accuracy** rate in query responses across PDF document types, processing up to **200 pages per document** | | | | | | | | |
| **LEADERSHIP EXPERIENCE** | | | | | | | | | |
| **Coordinator, Dance Club (KOS) | *IIT Kanpur*** *May’23 – May’24* | | | | | | | | | |
| *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** by tier-1 artist separately in two shifts for **50+ beginners** and **30+ team members** * Collaborated with Antaragni on a climate awareness campaign, reaching an audience of **1K+** in Kanpur’s biggest mall | | | | | | | | |
| *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** | | | | | | | | |
| **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** | * **3rd position** in group dance category | | | * **3rd position** in dance battle category | | **Inter-IIT** | | *2023* |
| **Antaragni, IITK** | * **1st position** in group dance category | | | * **1st position** in dance drama category | | **National** | | *2023* |
| *Social Work* | • Tutored **20 underprivileged children** in Math and English of class 5th and 6th through **Prayas, IITK**   * Mobilized funds to support children's education at **Muskurahat Foundation (NGO)** earning a **merit certificate** | | | | | | | | *2022* |