



MANTAVYA UPADHYAY

Strategy & Business Ops at Navi | IIT Kanpur

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in mantavya-upadhyay

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Gwalior, India

EDUCATION

Indian Institute of Technology Kanpur

Undergraduate | B.Tech EE

CGPA: 8.8/10

2022 - Present

Kanpur, India

M.B. International School, Kota

XII, CBSE

Percentage: 95.8%

2022

Kota, India

Yogiraj Public School, Kota

X, CBSE

Percentage: 96.8%

2020

Kota, India

ACHIEVEMENTS & AWARDS

- Secured AIR 2584 in JEE Advanced 2022 and AIR 7121 in JEE Main 2022 amongst 870K+ candidates
- Secured National and State Top 1% from Rajasthan in IOQP 2022 and NSEP 2019
- Awarded National Talent Search Scholarship 2020 by NCERT, with a score of 191/200 in stage 1
- Conferred with the Best Poster Award by Union Minister Nitin Gadkari at Global Conference on Decarbonizing India organized at NIT Calicut
- Won the case study competition Decrypt organized by E-Cell IITK twice with cash prize of Rs. 65,000

PUBLICATIONS

A Smartphone-Based Hybrid Model for Real-Time Monitoring of Aggressive Driving Behavior using Multidimensional Dynamic Time Warping
IEEE ICEPE Conference 2025

- Paper published in IEEE Xplore Digital Library
- Predict real-time harsh driving behaviour in automobiles using accelerometer and gyroscope readings from smartphones
- Employed Dynamic Time Warping technique for the identification of harsh braking and turning sequences while driving

Climate Change: Impact of global warming on India's electricity consumption

Global Conference on Decarbonizing India 2025

- Modelled the relationship between temperature and electricity consumption for all 28 states
- Calculated the temperature elasticity coefficients for all the states to quantify the impact of global warming on electricity consumption

Energy Transition Modeling: Short-Term Electricity Demand Forecasting Using Seq2Seq Encoder-Decoder Model

Journal: IITK Directions, Springer Nature 2024

- Created a framework for data processing and deploying machine learning models to forecast the electricity consumption
- Deployed a Seq2Seq Encoder-Decoder Model incorporating hourly weather features

WORK EXPERIENCE

ITC Limited | KITES Intern

Paperboards & Specialty Papers Division, ITC Bhadrachalam

May'25 - Jul'25

- Analyzed the plant-wide electricity generation and distribution network to identify major power consuming equipment
- Created a central repository containing delivery valve opening and load percentages for 100+ equipment
- Proposed energy optimisation measures for 1.7% reduction in power consumption and INR 6.89 Cr. yearly savings

Noora Health | Product Management Intern

NGO working to improve medical literacy among caregivers

Dec'23 - Apr'24

- Owned the problem definition and rollout of an automated Nurse Attendance Tracker, aligning operations, engineering and field teams; reduced administrative workload for 18.9k+ health workers by over 20%
- Drove adoption of a multilingual medical QnA chatbot by automating responses at scale, improving access to reliable information for 155k+ mobile users across diverse language groups

Zydus Healthcare Limited | Product Strategy Intern

Market Cap of INR 91.5 thousand crores

Jan'25 - Apr'25

- Owned product positioning and promotional strategy analysis for the \$120Mn brand LEVEXX within the \$11.4 Cr+ Indian epilepsy therapeutics market; evaluated the 40+20 tablet promotional pack using adoption, response, & channel-level metrics to prioritize high-impact levers
- Led primary research with 50+ neurologists, 30+ patients, and 20+ chemists into 12+ decision-driving KPIs and adoption models; delivered data-backed recommendations on messaging and rollout

SUSTAINABILITY PROJECTS

IITK Net Zero Water | Chandrakanta Kesavan Centre for Energy Policy

- Led a team of 7-undergrads to pitch an extensive 4-phase roadmap to the Solar Energy Corporation of India (SECI) for CSR Funding
- Coordinated with the Institute Works Department to secure a funding of INR 29.7 lakhs from SECI for monitoring the water consumption across campus
- Contracted Kritsnam Technologies to deploy 27 IoT-based flow meters and set up a water consumption & extraction dashboard

Kuppam Net Zero Carbon | Govt. of Andhra Pradesh (ongoing)

- Developing a roadmap to achieve Net Zero Carbon Emissions for Kuppam, the constituency of Andhra Pradesh's Chief Minister Shri Chandrababu Naidu
- Building ML models to forecast the electricity demand from Organic & Inorganic Growth and analysing Scope 1 & 2 emissions for the constituency
- Collaborating with Kuppam Area Development Authority to ensure compliance with upcoming and current industries in the area

POSITIONS OF RESPONSIBILITY

Manager | Career Development Wing

Academics and Career Council, IIT Kanpur

Apr'24 - Apr'25

- Led a 22-member team with a INR 4L+ budget, organizing large-scale events like Career Connect with 2000+ footfall
- Launched IITK's first Resume Repository, enhancing internship readiness for 4000+ students. Achieved 40% YoY engagement growth across 3000+ students through new initiatives and collaborations.

Manager | Raktarpan

Community Welfare Cell, IIT Kanpur

Apr'24 - Apr'25

- Led a 20-member team conducting 7 blood donation camps annually, collecting 1000+ units and impacting 3000+ lives
- Drove a 60% YoY rise in donations through partnerships with 5+ NGOs and digital outreach to 13K+ individuals