

Kinshuk Bhardwaj

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WORK EXPERIENCE

Accenture GN S&C

Industrial and Functional Analyst Intern - Supply Chain & Optimization

Jan 25-Present

- Developed an **AI-driven** asset health model, **reducing downtime** by **30%** & **maintenance costs** by **25%**
- Built an integrated pipeline for PAM, QA, & production planning increasing operational efficiency by **35%**
- Implemented **real-time** anomaly & RUL detection models, improving **failure prediction accuracy** by **40%**

Data & AI Intern - [PPO Offered, Awarded the title of "Best Intern" out of 45+ interns]

June 24-Aug 24

- Developed an **optimization model** using MIP to reduce makespan by **16.8%** compared to metaheuristics.
- Utilized **Simio** for simulation modeling, improved system analysis and decision-making efficiency by **25%**.
- Reduced **financial losses** by **25%** using **scenario planning** for manufacturing using Simio Digital-Twin.

FedEx India

Oct 24-Dec 24

MLOps Intern

- Designed and deployed a sophisticated ML pipeline, slashing customer service response times by **30%**.
- Revolutionized query processing by automating standardization and categorization of **500+** daily requests.
- Boosted operational transparency with a robust SQL framework, elevating synergy across **4** departments.

DentalPaas

Sept 23-Nov 23

Computer Vision Engineer

- Researched and created a Computer Vision algorithm that can **identify** human teeth from a given X-Ray
- Processed **100+** dental panoramic X-Ray images in order to establish the training data set for the CV model
- Adapted a **U-Net CV** model to craft a semantic image classification algorithm with an accuracy of **90%**

CoreVoice

May 23-July 23

Data Analyst Intern

- Analyzed **4000+** samples, conducting exploratory data analysis over the last **8** years for trend identification
- Constructed a **linear regression** model with **94.7%** accuracy to predict the final closing ranks for 2023
- Found that the opening and closing ranks have decreased by **7%** due to the AskIITM Campaign's impact

PROJECT WORK

ONGC Petro Additions Ltd. India

Aug 24-Dec 24

Research Assistant Under Prof. Rahul R Marathe at Dept. of Management Studies, IIT Madras

- Created a product prioritization model for the petroleum industry to prioritize products among **18+** feeds
- Built a cost forecasting model based on input based on the product prioritization model to predict costs

B.Tech Project, Department of Ocean Engineering, IIT Madras

Aug 23-April 24

- Final year project on **Physics Informed Neural Networks** (PINNs) in order to simulate dynamic fluid flow
- Developed a physics-informed neural network with **~10** layers and **160** epochs to solve PDEs autonomously
- Simulated** fluid flow around a **2-D cylinder** and solved the Navier-Stokes equation with **91%** accuracy

EDUCATION

Indian Institute of Technology, Madras

Chennai

Master of Business Administration (M.B.A) Finance, Minor - Operations Research

CGPA: **8.26** 2025

B.Tech Naval Architecture and Ocean Engineering

CGPA: **8.26** 2024

RELEVANT COURSES

Business Information Systems & Analytics | Mergers & Acquisitions | Operations Research | Probability, Statistics & Stochastic Processes | Multivariate Statistical Methods | Computational Finance | Python | C++

SKILLS & INTERESTS

Skills: Python, C++, R, JavaScript, React, Django, Sci-Kit Learn, Tensorflow, Predictive Analytics, PyTorch, GenAI, NLP, Machine Learning, SQL, Azure, AWS, Power BI, Tableau, Financial Modeling, Microsoft Excel

Interests: Fine Arts (Member of the Inter-IIT contingent), Chess, Chinese (TOCFL A1), Japanese (JLPT N4)