

# Kinshuk Bhardwaj

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## EDUCATION

**Indian Institute of Technology, Madras** **Chennai**  
*B.Tech Naval Architecture and Ocean Engineering, MBA (Dual Degree), CGPA: 8.14* 2025

## WORK EXPERIENCE

**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*

- Built an extensive data analysis report to show the impact of the AskIITM project on 2023 JOSAA ranks
- 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

**Department of Applied Mechanics, IIT Madras** **May'22-July'22**

*Reserach Assistant*

- Developed a self-rising seat prototype capable of supporting **80%** of average body weight while sitting
- Analyzed the biomechanics of seating and determined a **35°** angle for optimal support during getting up
- Created a system using torsional and helical springs, capable of supporting up to 35° in the final prototype

## PROJECT WORK

**B.Tech Project, Department of Ocean Engineering, IIT Madras** **Aug'23-Present**

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

**Credit Card Fraud Detection** **June'22-April'23**

- Processed **284000+** samples, conducted exploratory data analysis to identify patterns & trends in the dataset
- Implemented a **Logistic Regression** algorithm to detect fraudulent transactions using Sklearn (Python lib.)
- Achieved an accuracy score of **90.5%** on the logistic regression model to be able to detect credit card fraud

## LEADERSHIP EXPERIENCE

**Non Competitive Events, Saarang, IIT Madras** **June'22-April'23**

*Head*

- Led the **largest** team in Saarang, with a budget of **4L+**, managing **25+** coordinators and **60+** volunteers
- Conducted **25+** events featuring **VIP** guests, and handled a crowd of over **10k people** throughout 5 days

**Informals Club, Sangam, IIT Madras** **June'22-April'23**

*Head*

- Headed a team of **9** Coordinators, managed a club budget of **2L+** lacs, & board game inventory worth **30k**
- Supervised **6k+** students, while organizing **LITSOC 2022**, hosting high-scoring events for the competition

## CERTIFICATION & ACHIEVEMENTS

**Certifications:** "Responsive Web Design" by FreeCodeCamp, "Summer Analytics 2023" by IIT-Guwahati

**Achievements:** Represented IITM at 6th annual Inter IIT Cultural Meet, 44th International Chess Olympiad

## SKILLS & INTERESTS

**Skills:** C++ | Python (Pandas, Seaborn, Scikit-Learn, TensorFlow) | Azure | SQL | PowerBI | Tableau

**Interests:** Data Science and Analytics, AI & ML, Finance, Chess, Fine Arts, Chinese (A1 in TOCFL), Japanese