

# Tejal Saurabhi

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## EDUCATION

Indian Institute of Technology, Kharagpur

*B.Tech in Metallurgical and Materials Engineering*

2023 – Present

CGPA: 8.69

Asian College of Science, Commerce and Arts

*Higher Secondary School Certificate*

2022

Percentage: 87.5%

The Bishop's Co-Ed School, Kalyani Nagar

*Indian Certificate of Secondary Education*

2020

Percentage: 97.3%

## EXPERIENCE

JPMorgan Chase & Co.

February 2025 – Present

*Quantitative Research Mentee*

- Selected among the **top 30** candidates nationally for the **Women in Quantitative Finance Mentorship Program 2025**.

## ACHIEVEMENTS

- Scored a **10 SGPA** for Department Change and an overall **SGPA of 9.71** in Semester 2.
- Placed among the **top 128** students nationally in the **Zonal Computing Olympiad (ZCO - 2022)** and participated in the **Indian National Olympiad in Informatics (INOI)**.

## PROJECTS

1. Global Model United Nations 2025 (GMUN) Website

December 2024

**Technologies Used:** HTML, CSS, JavaScript, React.js, MongoDB, JWT, Socket.io

- Developed the official website for the annual **Model United Nations** conference, enabling **seamless registrations** and improving **event visibility**.
- Implemented **secure authentication** with **JWT** (access/refresh tokens) and **Bcrypt**, leveraging **MongoDB** via **Mongoose** for data management.
- Added **real-time chat** using **WebSockets** and **Socket.io**, ensuring dynamic user interactions.

2. Homestay Price Prediction Model (1st Runners-Up)

September 2024

**Technologies Used:** Python, Machine Learning, Scikit-learn, NumPy, Pandas, Matplotlib

- Cleaned data via **scaling**, **encoding**, and **imputation** to improve quality.
- Performed **EDA** and **feature engineering** to identify key pricing factors.
- Trained (**Random Forest**, **Decision Trees**, **XGBoost**) achieving **95% accuracy**.

## COURSEWORK AND CERTIFICATIONS

- Coursework:** Programming and Data Structures (Theory and Lab - Highest grade), Probability and Statistics, Linear Algebra (Highest grade), Advanced Calculus, Fundamentals of Embedded Control and Software.
- Certifications:** Machine Learning Specialization (Coursera - Andrew Ng), Simulink Onramp, Control Design Onramp, MATLAB Onramp.

## TECHNICAL SKILLS

**Languages/Tools:** C, C++, Java, HTML, CSS, JavaScript, React.js, Python (NumPy, Pandas, Matplotlib, Seaborn), Git/GitHub

## POSITIONS OF RESPONSIBILITY (IIT Kharagpur)

Kharagpur Data Analytics Group (KDAG)

May 2024 – Present

*(Associate Member)*

- Participated in the **intra-society hackathon** and secured **1st runner-up position**.
- Completed the data science roadmap to achieve **intermediate-level proficiency** in **Machine Learning**.
- Contributed to the **CDC101 Think Tank**, a curated collection of probability problems and puzzles.

Communiqué (Official Soft Skills and Personality Development Society)

August 2023 – Present

*(Secretary, Tech and Core Team)*

- Co-hosted **Freshers Induction** and conducted interviews for blog posts on interns at top companies.
- Boosted event participation by **100%** for **GMUN 2024** through targeted marketing.
- Led **Internship Training Week** on **SDE roles** and co-hosted the society's **Introseminar**.