



# Tushar Chaudhary

2022CHB1059

Bachelor of Technology

Indian Institute Of Technology, Ropar

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GitHub | LinkedIn

## EDUCATION

Degree	Institute/Board	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	2022-Present
Senior Secondary	Central Board of Secondary Education	2022
Secondary	Central Board of Secondary Education	2020

## EXPERIENCE

### • MLworkX

Software Development Intern

May 2024 - July 2024

Greater Noida, India

- Successfully introduced a date filter functionality, empowering users to sort and analyze data efficiently—adoption rate exceeded 70% within the first month of release.
- Built a new product performance metrics, leading to a 25% improvement in the ability to track and optimize user engagement trends.
- Redesigned elements of the Admin Console interface, resulting in a more intuitive user experience and a 15% increase in user satisfaction scores.

## PROJECTS

### • Credit Card Fraud Detection

under the guidance of Dr. Kishant Kumar

GitHub

- Built predictive models, including Logistic Regression, KNN, Random Forest, XGBoost, and SVM, to analyze customer spending patterns, processing over 100,000 transaction records.
- Examined customer geography and spending behaviors to classify fraudulent vs. non-fraudulent transactions, achieving up to 98% accuracy with XGBoost and 95% accuracy with Random Forest.

### • Comment-Toxicity

Jupyter Notebook

GitHub

- Utilized Deep Learning and NLP to detect toxicity in comments, processing 50,000+ samples with 90%+ accuracy.
- Categorized 50,000+ comments into labels like toxic, severe toxic, obscene, threat, insult, and identity hate with 95% accuracy using advanced text vectorization.

### • CinReco

Jupyter Notebook

GitHub

- Created a movie recommendation system in Python to suggest similar movies, analyzing 10,000+ movie features for accurate suggestions.
- Implemented cosine similarity and text vectorization in Scikit-learn to compare and rank movie features with 95% efficiency.

### • Minor Projects

Self

- **Face Detection** : Jupyter Notebook | Built a Face Detection System using OpenCV for live face detection. | **GitHub**
- **Task Manager API: CRUD Operations** | Developed a project on Video Cryptography, focusing on RSA encryption. | **GitHub**

## SKILLS

- **Programming Languages:** C/C++(Proficient), Python, Java, Perl (Basic), HTML5, CSS, JavaScript
- **Data Science:** Supervised Learning, Recommender Systems, CNN, Natural Language Processing
- **Frameworks/Tools:** MATLAB, Numpy, Pandas, Matplotlib, NLP, ML, OOPS, Scikit-learn, TensorFlow, Keras, NLTK

## KEY COURSES TAKEN

- **CSE:** Data Structures and Algorithms, DBMS, Introduction to Web Development, Computer Networks, Operating System
- **Maths:** Advanced Calculus, Linear Algebra, Differential Equations, Foundation of Data Science, Economics
- **Others:** English Proficiency, Economics, Introduction to Electrical Engineering, Basic Electronics, Managerial Sciences

## POSITIONS OF RESPONSIBILITY

- **Assistant Internship Coordinator:** Career Development and Placement Cell, IIT Ropar 2024 - Present
- **Web Development and Media Head:** Zeitgeist Cultural Fest, IIT Ropar 2024 - Present
- **Deputy Secretary:** Outdoor Adventure Club (ODAC), IIT Ropar 2024 - Present
- **Web Development Head:** Advitiya Technical Fest, IIT Ropar 2024- Present
- **Representative:** Student Council, IIT Ropar 2023 - 2024

## ACHIEVEMENTS

- **ICPC:** Ranked 47th in the Asia Amritapuri First Round Online Programming Contest Present
- **Coder of the Month:** Certified as the coder of the month, October 2024 by coding club IIT Ropar 2024
- **SZ International Informatics Olympiad:** Secured State rank 3 and Olympiad Rank 15. 2021