

## MIHIR RANJAN

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### Education

#### Master of Technology - Artificial intelligence & Data Science (Specialisation - Cyber Security)

National Forensic Sciences University  
CGPA - 8.90 (Till 1st Semester)

Aug 2024 - Present

#### Bachelor of Technology - Artificial intelligence

Mahindra University (Ecole Centrale School of Engineering)  
CGPA-7.39/10

Aug 2020 - Jun 2024

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### Projects

#### 1. NLP-Driven Mental Health Assessment System

Jan 2025 - Apr 2025

National Forensic Sciences University

*Designed an AI-powered system using NLP and ML to assess mental health via structured questionnaires. Provides personalized feedback and condition classification. Built with Streamlit for a user-friendly experience, promoting mental health awareness.*

#### 2. A Multi-Faceted Approach to Fraudulent Website Detection

Sep 2024 - Dec 2024 | [Link](#)

National Forensic Sciences University

*Developed an AI/ML system to detect and classify fraudulent websites and mobile apps. Applied ML, sentiment analysis, OCR, and NLP (TF-IDF, NER) for fraud detection. Built a web scraper for data extraction and performed URL analysis on 25+ parameters, integrating anomaly detection via ensemble learning.*

#### 3. Trigger word detection

Jan 2024 | [Link](#)

Techolution | AI done right Hackathon

*Developed an automated task management system using trigger word recognition. Enabled voice-controlled actions (e.g., opening/closing doors) via Raspberry Pi3. Integrated CNN and LSTM models for accurate spoken command interpretation.*

#### 4. Chat-bot - Replacing toxic words

Aug 2023 -Mar 2024 | [Link](#)

Mahindra University

*Developed an NLP-driven chatbot to identify and replace toxic language, enhancing conversation quality. Created and curated datasets to refine language in real-time, fostering positive communication.*

#### 5. Image Reconstruction using Deep Learning

Jan 2023 - Jun 2023 | [Link](#)

Mahindra University

*Implemented the TNRD algorithm in MATLAB to remove Gaussian noise from images. Contributed to a course project, leading to the selection of the paper for SSVM 2023.*

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### Experience

#### 1. Artificial Intelligence Intern.

Feb 2025 - Apr 2025 | [Link](#)

Solar Secure Solutions | Remote

*Gained hands-on experience in Python programming, data cleaning, preprocessing, feature engineering, and developing machine learning models. Worked on real-world datasets, applied supervised learning techniques, and optimized model performance, achieving an "Excellent" performance rating.*

## 2. Machine learning (NLP) Intern.

Aug 2023 - Sep 2023 | [Link](#)

Suvidha Foundation (Suvidha Mahila Mandal) | Remote

*Conducted research on rare words in text summarization for a machine learning and natural language processing (NLP) project, actively contributing to the replication of the published results.*

## 3. Club Head

Sep 2022 - Jun 2023

Mahindra University | Kalakriti

*Led Kalakriti, the university's cultural club, organizing major events, including the Tarang festival.*

## 4. Cultural Head

Jan 2023 - Apr 2023

Mahindra University | Aether

*Organized and hosted Aether, the university's annual Techno-Cultural Fest, ensuring smooth execution.*

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## Skills

**Computational tools/skills:** Python, ML, Deep Learning, NLP, MySql, Transformers (NLP), Network Security, C++.

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## Awards and Certification

### IRM Global Level 1 Certificate

2024 | [Link](#)

*Earned from the Institute of Risk Management, covering risk identification, assessment, treatment, and governance for foundational risk management knowledge.*

### FITIFY

2022 | [Link](#)

*Secured 2nd place at Mahindra University's E-Summit 2022 for developing a fitness app prototype and showcasing startup innovation.*

### Universe making game

2021

*Secured 2nd place in a coding event by Enigma (CS club) at Mahindra University for game development.*

### Most Verbal Mention

2020 | [Link](#)

*Awarded at Mahindra University's MUN for exceptional communication and diplomacy while representing South Africa.*

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## Interests/Extra-curricular activities

**Sports:** Gym , Powerlifting, badminton

**Interests:** Listening to Podcasts, Reading, Journaling.

**Social Service Initiatives:** Participated in Canathon at KBR Park (cancer awareness), a blood donation drive (NTR Trust), and a cleanliness drive (plastic awareness) at MU.