

Tiya Roy

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EDUCATION

National Institute of Technology Tiruchirappalli

Tiruchirappalli, Tamil Nadu

Master of Computer Applications

Aug 2022 – Aug 2025

- Cumulative GPA : **8.11/10.0**
- Relevant Coursework: Machine Learning, Deep Learning, Data Mining, Probability and Statistics, Advance Data Structure and Algorithms, OOPs, Software Engineering, Computer Networks, Marketing Management

Chinamaya Degree College

Haridwar, Uttarakhand

Bachelor Of Science in Computer Science

Aug 2019 – Aug 2022

- Cumulative GPA : **7.73/10.0**
- Relevant Coursework: Algorithms and Data Structure, Database Management System, Operating System, Linear Algebra, Discrete Mathematics, Differential Calculus

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C/C++
- **Machine Learning and Deep Learning:** Convolutional Neural Network, OpenCV, Pytorch, Dlib, tkinter, Yolov5
- **Certification:** Git and GitHub (Course by DotQuestionMark Community)

PROJECTS

Drowsiness Detection

| *Machine Learning*

- A Drowsiness Detection Model detects in real time if a person is **sleeping, drowsy or awake**. If it detects sleeping then it will ring a **Beep** sound.
- User can use this model using GUI.
- It is built using **Dlib** toolkit, which detects using **Linear SVM**.

Real-Time Crime Prevention through CCTV

| *Deep Learning*

- A Crime Prevention Model that detects if a person is in danger. This will be done by two methods. First is by detecting facial emotions (fear, sad etc.) and second by reading SOS hand sign.
- Implemented using **CNN**. The data used is FER-2013.
- The data used is **FER-2013**.

ACHIEVEMENTS AND POSITION OF RESPONSIBILITIES

- Participated in Hackon'24 a hackathon conducted by Amazon.
- Participated in Group Song Competition in National Level KVS Social Science Exhibition'16.
- 650+ problems solved in Leetcode with highest contest rating as 1584.
- Highest CodeChef contest rating is 1550.
- **Internship Coordinator** : The role Internship Coordinator for batch 2022-2025 MCA involves coordination between the Placement Cell and the batch during the whole internship process.
- **Design Head, Aayaam, NITT**: Aayaam which promotes Hindi and Indian culture in NITT under which we conducted various events throughout the year in which I am part of Design Team and Event Execution Team. .

HOBBIES

- Singing
- Dancing
- Art .