TANMAY

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ACADEMIC DETAILS

B Tech (Electronics and Communication Engineering(Internet of Things))	2023-2027	MMMUT, Gorakhpur	8.31/10.0
Class XII (CBSE)	2022	St. Mary's Inter College, Etawah	89.0%
Class X (CBSE)	2020	St. Mary's Inter College, Etawah	94.2%

PROJECTS

DEEPFAKE DETECTION WEB APPLICATION:

- *Python, TensorFlow, Flask, HTML/CSS/JavaScript*
  Built an AI-powered web application to detect deepfake images with high accuracy using a custom-trained CNN on real vs fake face datasets.
- Integrated the model with a Flask backend for real-time inference and designed a futuristic, sci-fi-inspired glassmorphism UI with drag-and-drop upload, confidence bars, and visual feedback.
- **GitHub Link** │ **LinkedIn Post**

LEAF DISEASE DETECTION WEB APPLICATION:

- *Python, TensorFlow, Flask, HTML/CSS/JS*
  loDeveped a deep learning-based web application that detects plant leaf diseases from images using a convolutional neural network (CNN).
- Integrated the trained model into a Flask backend for real-time predictions and built a responsive frontend interface for image uploads and result visualization.
- **GitHub Link** | **LinkedIn Post**

WINE QUALITY PREDICTION:

- *Python, Scikit-learn, Pandas, Matplotlib*
  Developed and evaluated multiple machine learning models to predict wine quality using the UCI Wine Quality dataset.
- Conducted data preprocessing, feature selection, and visualization to explore the relationship between physicochemical properties and wine quality.
- Analyzed model performance through metrics such as accuracy and RMSE, and visualized feature impacts to understand the chemical factors influencing wine quality.
- **GitHub Link** | **LinkedIn Post**

AUTOMATIC BIOMETRIC LOCK USING ARDUINO UNO:

- Built an automatic biometric lock using **Arduino Uno.**
- Components used were - Arduino Uno, Solenoid Lock, 5V single channel relay, Bluetooth HC05 moduole, Battery.
- **LinkedIn Post**

ACHIEVEMENTS

- Obtained an **Elite certification** by participating in a 1 week workshop on "**IoT , Drone, 3D-printing and Artificial Intelligence"** held during 27 April 2024 to 04 May 2024.
- Received multiple awards for excellence in **public speaking** at various events.
- Participated in **"Ansys software workshop"** held during 23 April 2024 to 25 April 2024.

SKILLS

Technical: Python, C, Intermediate JAVA , Arduino UNO, ESP8266, Raspberry Pi OS, Adobe Photoshop, MS Word , MS Excel.

Curriculum: Python for IoT, Antenna Systems , Sensors and Actuators , Electronic Components.

Certificates: |IoT, Drone, 3D printing , Artificial Intelligence|

Interests:
- Artificial Intelligence , Machine Learning , IoT, Electronics , Robotics , Drones.

POSITION OF RESPONSIBILITY

- **Executive Member** at Drone & IoT club , MMMUT .   *March 2024- June 2025*

- **Event Coordinator** at Drone & IoT club, MMMUT.   *June 2025-ongoing*

EXTRACURRICULAR

- Successfully contributing as a volunteer in Swiftwings'24 : A 3 day workshop and RC fixed wing competition organized by Drone & IoT club.