SIMATS ENGINEERING

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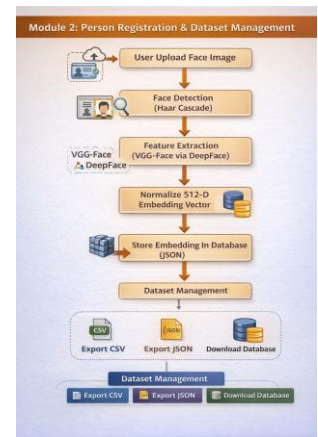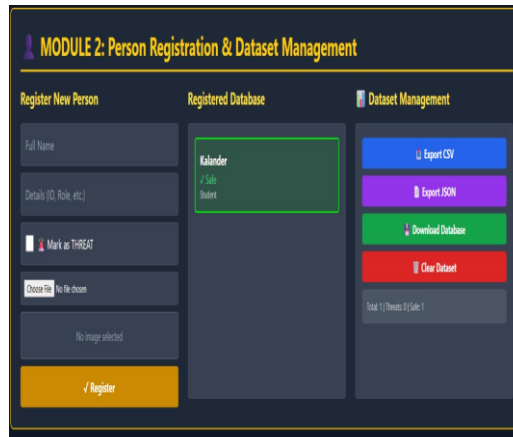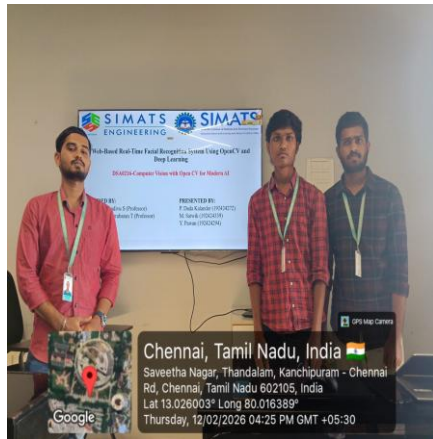**Course Code**: DSA-0216   **Slot:** B

Course Name: Computer Vision for with Open CV with Modern AI

Course Faculty: Dr S Senthilvadivu & Dr T Kumaraguruban

Project Title: A Web-Based Real-Time Person Identification System for Intelligent Surveillance Using OpenCV and Deep Learning
Module Name: Person Registration & Dataset Management
Module Photographs:

Project Description:

    Module 2 focuses on the development of a face registration and recognition system using web and computer vision technologies. In this module, an authentication mechanism is implemented to provide secure admin and user access. The admin is provided with the functionality to capture facial images through a live camera interface integrated into the web application. These captured images are stored as known faces in the system for future identification. Facial features are extracted using a face recognition library to generate unique face encodings for each registered individual. During the recognition process, a new image is captured and its facial encoding is generated. The system then compares this encoding with the previously stored encodings to determine whether the person is known or unknown. Based on the comparison results, the system displays the identification outcome. This module demonstrates the practical implementation of AI-based face recognition for surveillance and security applications.

Y Pawan

Student Signature   **Guide Signature**