Project overview

Project Objectives

The **Hand Gesture Recognition System** aims to provide a seamless and interactive way for users to communicate with computers using hand gestures. The project focuses on **real-time recognition**, **accessibility**, and **hands-free control**, benefiting areas such as **assistive technology, smart devices, and virtual interaction**.

Team Members & Roles

Name	Role
Yousef Lasheen	Data Collection & Preprocessing
Fatma Fawzy	Model Development and Training
Mariam Tarek	System Integration & Real-Time Testing
Romisaa Hassan	MLOps Implementation and Model Monitoring
Mahmoud Osama	Final Documentation and Presentation

Additional Information

- The system will use **CNN-based deep learning models**.

- Data will be collected from **public datasets and custom recordings**.

- The project will be implemented using **Python, TensorFlow, and OpenCV**.