**Hand Detection in Real-Time Camera Footage using OpenCV - Technical**

**1 . Introduction**

This technical documentation outlines the development and implementation of a real-time hand detection project using OpenCV, a popular computer vision library. The goal of this project is to identify and track human hands in live camera footage and provide accurate and efficient results.

**2. Project Overview**

The hand detection project involves the following key components:

1.camera input: The Project utilized a camera (webcam) as input to capture and detect the real time footage.

**3. Requirement**

To run the hand detection project, we need to have the following libraries installed:

* OpenCV
* Mediapipe

**4.Implementation**

The implementation of hand detection using OpenCV and mediapipe following these steps:

4.1 Import Libraries

4.2 initialize MediaPipe Hands

4.3 Preprocess the Frame

4.4 Perform Hand Detection

4.5 Visualize the results

**5. Conclusion**

These technical documentation has demonstrated the implementation of real-time hand detection hand using OpenCV and MediaPipe. Project utilizes MediaPipe’s pretrained hand detection model to detect and track hands in a video strem obtained from a cameta. By following provided steps, we can easily integrate hand tracking capabilities into our computer vision applications.