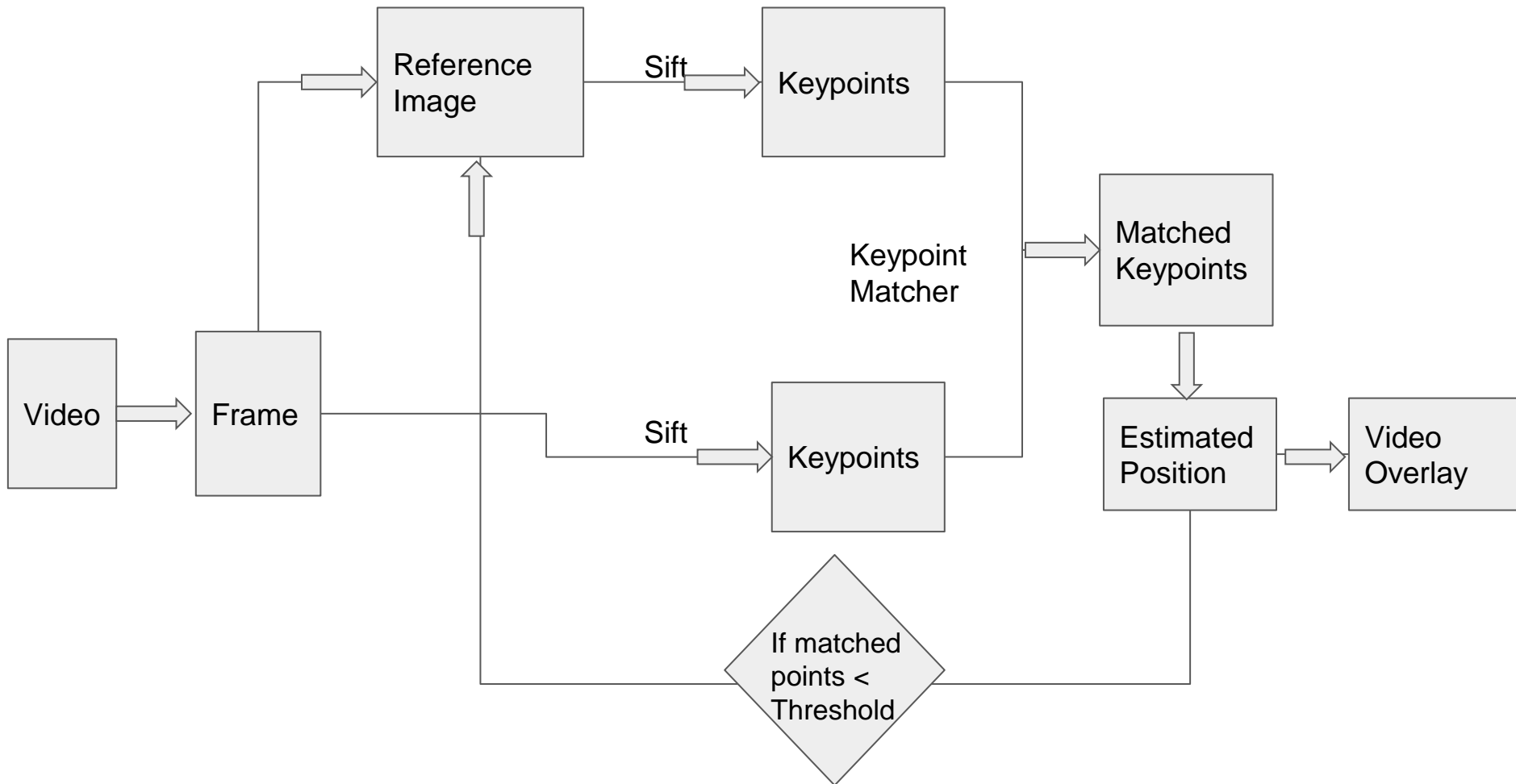# Objective

Given a Robot image and a video,identify the robot in video and trace it by inscribing a bounding box around it, throughout the video.

OpenCV on python is used to implement the project.

OpenCV is an open source library with image processing capabilities.

Methodology

Key Features

Takes the reference image as a user defined input from the video frame, eliminating any discrepancies in illumination

Estimates the position of the robot using a weighted average of matched keypoints

Uses a feedback loop to determine the new reference image from the last known position

Resilient to stray matched keypoints