COMPUTER VISION & IMAGE UNDERSTANDING

EYE POSITION ESTIMATOR

Problem Statement:

In various medical treatment or eye operation, accurate image scan of both eyes are necessary. Along with that, the eyes image scan should be with better accuracy of both eyes position and also there should not be any eye blinking error.

Tools or Technologies:

1.) Python

2.) OpenCv

3.) Image Processing & Understanding using CNN (Convolutional Neural Network) or Mediapipe library in python

Overview and Solution:

As mentioned about the eye image scan accuracy problem in medical treatment, here we will be creating a python GUI based model where we will be detecting the position of eyeballs of both the left and right eyes. Along with

that we will also mention with which accuracy that eyeballs positions are being detected.

Also, we will be implementing the code for estimating the eye blinking error using image processing.

Using this model, further can be implemented on large scale and will be definitely be useful in some or the other ways.

Team Members:

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