**Sign Language Detection using ACTION RECOGNITION with Python / Tensor Flow Classification Model**

**Description how I do**

* I use classifier and detector as well in the project.
* In the project you are able to classify letters (e.g. A, B, C, etc.), sentences (e.g. “I LOVE YOU”, etc.) through signs and actions.
* So how I am able to achieve this
  + First of all, I locate the object which will be our hand, and find the position of it, from there onwards, I am going to classify what exactly is the hand representing.
  + So I use the detector from Mediapipe library to detect the hands.
  + After detection the next part is classification, so for classification I use classifier from Tensor flow library.
  + So I need to write four scripts, the first one is for collecting the data of desire action of class. Whenever I have a hand it supposed to detect it and crop the image and get multiple images of hand, that image will use for training ML algorithm.
  + The second script is basically a class for detecting hand.
  + The third script is for class of classifier from tensor flow.
  + The fourth script also a class for detecting face mesh.
  + The fifth script is for testing the hands.

I hope, I’ll not disappoint you this time, will try to give my best to you.

Thanks for cooperation.