**REAL TIME IRIS DETECTION PROJECT**

We are building an iris detection project using key point annotation with the concept of deep learning and with help of python language in anaconda environment and with the use of TensorFlow. We have shown here the real time detection of tracking of our iris movement.

So, First of all we will be doing our project in a Virtual Environment. We created our virtual environment in our project folder and then activated it as a kernel using ipykernel. We will be installing all the Libraries into this Virtual Environment only.

We have used python libraries like TensorFlow, OpenCV , LabelMe and many others dependencies in order to make this project.

In this project we have made our own data set by collecting our own images using OpenCV Python and then annotating it with the LabelMe library .We have converted it into data set and then augmented it with the use of Albumentation library.

We have successfully loaded our data set into TensorFlow pipeline in order to train the model.

So, Finally we have started training our machine in our system which can take upto 2-3 hours depending on our processor and GPU.

After successfully training our model, We will be doing now Real Time Detection of our iris.