**Instructions**

Developed by: Ashish Ranjan - whoashishranjan@gmail.com

This app package contains two executable files.

1. Classify\_Face\_Angles.exe
2. Classify\_Face\_Frontal\_Angles.exe

Both executables take the same inputs and produce the same outputs but in different formats. Either one can be used as required.

**INPUT**

1. Path to dataset which needs to be classified.
2. Path to directory where the classified images will be stored. If the directory does not exist, it will be created.
3. Width of the images to be used while processing. It depends on the size of the faces in the images. For the QDF Dataset, a value of 300 was found to be appropriate.

**OUTPUT**

1. **Classify\_Face\_Angles.exe**

This executable classifies the input images into the following classes of angles only. Total of 9 folders.

**Pitch:** 0 to -15 in folder P-15

0 to +15 in folder P+15

**Yaw:** 0 to -15 in folder Y-15

0 to +15 in folder Y+15

-15 to -30 in folder Y-30

+15 to +30 in folder Y+30

-30 to -45 in folder Y-45

+30 to +45 in folder Y+45

**Others:** The images in which the face was occluded or the angle was found to be beyond -45 to +45 are stored in the folder Others.

1. **Classify\_Face\_Frontal\_Angles.exe**

This executable classifies the input images into the following classes of angles only as well as frontal faces. Total of 6 folders.

**Frontal:** Images with faces in frontal orientation i.e., -15 to +15 rotation are stored in the folder Frontal

**Pitch:** 0 to -15 and 0 to +15 in folder P15

**Yaw:** 0 to -15 and 0 to +15 in folder Y15

-15 to -30 and +15 to +30 in folder Y30

-30 to -45 and +30 to +45 in folder Y45

**Others:** The images in which the face was occluded or the angle was found to be beyond -45 to +45 are stored in the folder Others.