**How to Run**

Face Detection and Recognition contains 3 parts

1. FaceDetection

This is python script which detects face from live video and saves in the file system

1. facerecognition

This is java middleware; this will scan the python saved image and send to Microsoft for face recognition.

3. FDWeb

This is simple html and java script web app which calls the java middleware every 15 sec and shows the response in the front end.

Please note: Robie need to add his voice code in this web app.

1. Face Detection setup
2. Install python
3. Install Open Source library user for Face detection

For this run the command “pip install opencv-python” in command prompt.

After successfully installed both , now we are going to run the face detection

For that, Go to {your directory}/FaceDetection\com\akhil\facedetection directory

And open FaceDetection.py in notepad; here you need to specify the location where you need to save the image. Keep in mind we need to specify this same location while building the java middleware.

Now open command prompt under same folder “{your directory}/FaceDetection\com\akhil\facedetection” and type “FaceDetection.py”

Now the camera is on and it will start detect a face and save the image the location you specified in script

To stop the script use cntrl+c in command prompt.

1. Build facerecognition middleware.
2. Open “{your directory}facerecognition\facerecognition\src\main\resources\application.properties” here you need to specify the image location like below

faceImgePath={your location}

b. to build the project as fat jar. follow below steps

1. open command prompt and go to {your directory}/facerecognition/  
 and run the command mvnw.cmd clean package

Note: if you have maven installed then instead of above you run mvn clean package

Note: this java project is compatible with java8

It will recreate “facerecognition.jar” under {your directory}/facerecognition/target folder.

1. to run the middleware copy and paste the above “facerecognition.jar” in any directory in your local and open command prompt from that directory and run the command “java –jar facerecognition.jar ”
2. For FDWeb , you deploy this in tomcat webapp or Apache httpdoc folder.

3. Web App Set Up

You can deploy this either in Http server or tomcat.

Copy this FDWeb to httdoc folder in case of Apache http server and webapp folder in case of tomcat.