* **data.zip:** It consists of train, validation and test data.
* **models:**
  + classification\_reports**:** It consists of classification report of a trained model by me, if you happen to run the notebook and perform training again then your classification report would be present here.
  + confusion\_matrix: It consists of confusion matrix of a trained model by me, if you happen to run the notebook and perform training again then your confusion matrix would be present here.
  + history: It consists of the history of the metrics, if you happen to run the notebook and perform training again then your history would be present here.
  + plots: It consists of the plots of the metrics, if you happen to run the notebook and perform training again then your plots would be present here.
  + vgg\_16.h5 is the trained model by me, if you happen to run the notebook and perform training again then your model would be present here. **Note that the model is not present here but is present in my google drive for which the link is provided in the vgg\_16.txt file.**
* **notebooks:** It consists of the notebook used for training.
* **xml\_files:** It consists of the xml file which is used to detect faces when face\_exp\_recog.py script is run.
* **Face\_exp\_recog:** It is used to detect faces in the live Webcam and predict the emotions on a face if present.

**Note:**

* Ensure that the data.zip is extracted before the notebook execution.
* Face\_exp\_recog.py can be run directly as there is a pretrained model by me present in the model folder. In case you train a model on your own the use the model accordingly.