Main Page 1 of 1

Step 0 Import Required Packages

```
In [27]:
         import numpy as np
         import scipy.io
         import sklearn.metrics
         import sklearn
         import os
         import random
         import pandas as pd
         import time
         from sklearn.model_selection import train test split, GridSear
         chCV
         from sklearn.ensemble import GradientBoostingClassifier
         from sklearn.metrics import classification report, confusion m
         atrix, roc auc score
         import pickle
         from sklearn.preprocessing import StandardScaler
         from keras import Sequential
         from keras.layers import Dense, Activation, Flatten, Input, Dr
         opout, BatchNormalization
         from keras.models import Model
         from keras import initializers
         from keras.optimizers import Adam
         import matplotlib.pyplot as plt
         import tensorflow as tf
```

Step 1 Read The Files

```
In [2]: # When using Colab, you can upload train_set.zip in the conten
    t folder and run this kernel.
    # !unzip -qq /content/train_set.zip
In [28]: # Set your directory to read the data, default is the director
    y in colab.
    unzipped_folder_path = 'C:/Users/wannian/Desktop/face/train_se
    t'
```