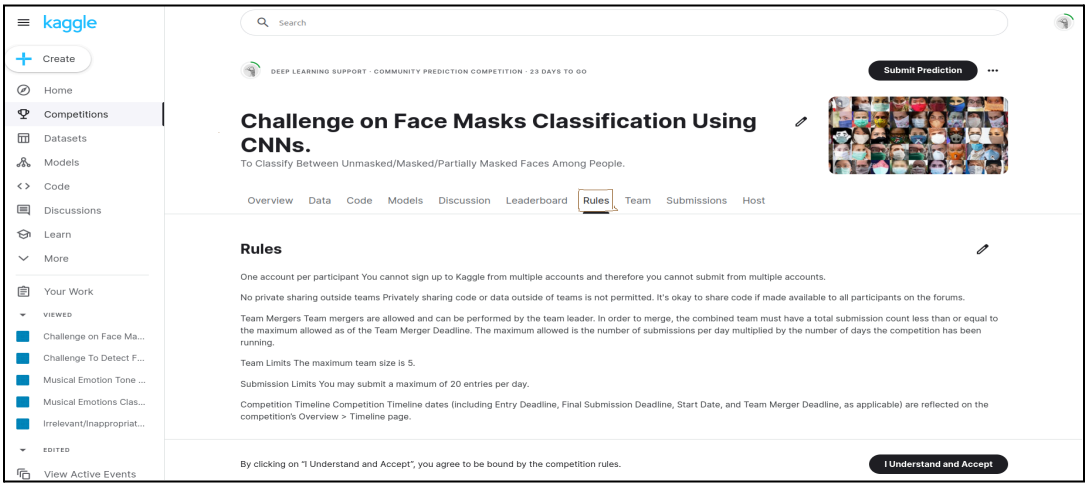
ReadMe

DLFA Module 03 – Face mask classification challenge using CNNs

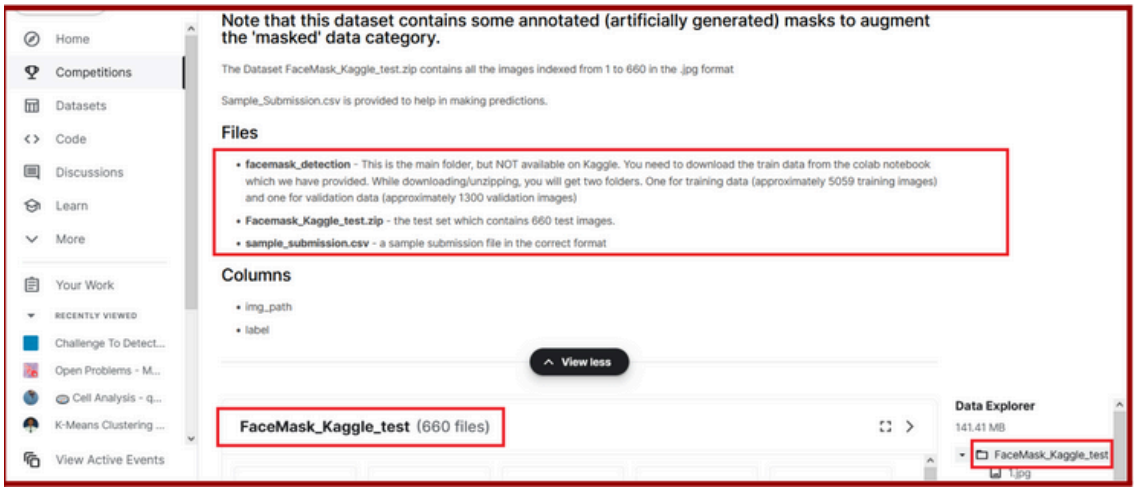
Team Creation and Prediction Submission in Kaggle

1. If you do not have an account with Kaggle, you can use your google account to **sign in** to Kaggle or create one for yourself or one on behalf of your team comprising four to five members.

2. Go to this in-class Kaggle Competition (https://www.kaggle.com/t/cabf3c47d31844449b5b7079de3441d5) and **accept the rules** under the “Rules” tab



3. You can see the test set from the Data section. We are providing a Colab Notebook (https://drive.google.com/file/d/1Jhp5eZZ3e-BakoWQgaUnopeIE9gVn_EH/view?usp=sharing) which contains the instructions for downloading the train and test data. The train data has NOT been provided on Kaggle. However, the test data and submission files can be downloaded from Kaggle also, but we recommend downloading train data, test data and sample submission file by executing cells in the Colab Notebook.



You will obtain

A. Train directory that contains approximately 5059 images (.jpg format) selected from each of 3 classes with_mask, without_mask and partial_mask.

B. Validation directory that contains approximately 1300 images (.jpg format) selected from each of 3 classes with_mask, without_mask and partial_mask.

C. Test directory that contains 660 images (.jpg format) selected from each of 3 classes with_mask, without_mask and partial_mask.

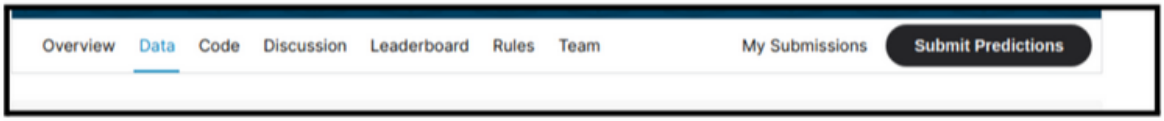
D. sample_submission.csv, which is a template for submission or predictions.

Note:

I. Do follow the order 1, ..., 660 while making predictions in the sample_submission.csv file).

4. Extract features of train and test dataset samples and get predictions using the Convolutional Recurrent Neural Networks or any other Deep Learning code written in Python (predict the results to sync with sample_submissions.csv). You are also welcome to use pre-trained models such as VGG16, ResNet 50 or GoogleNet to train and evaluate the images.

5. sample_submission.csv contains the format and header File Name and Target). Prepare your predictions in sample_submissions.csv format. Submit it by clicking on the Submit predictions tab as shown below.



6. After successful submission, you will see the mean Weighted Categorization Accuracy generated and an updated leaderboard position. The test set is split into a public set (80%) and a private set (20%). All your submissions are evaluated on both parts of the test set. By default we take your best submission on the public set for rankings. The public leaderboard is the ranking of all participants' submissions on the public set. It is actualized after every submission. The private leaderboard is the rankings of participant's submission on the private set, it is hidden from you and used for evaluation.

- The public leaderboard position will be updated as you submit the best

predictions. The scores of the different teams will be displayed in real-time on the public leaderboard.

- The final score is calculated on the private leaderboard.
- Maximum 20 submissions are allowed per day (UTC time) per team -
The public leaderboard will be active till 11:59 PM, 10th February, IST
- The private leaderboard will be visible after 11:59 PM, 11th February, IST