INSTRUCTIONS

Step-1 Find the dataset attached in the following link: Link
Step-2 You must open this link through your gmail account and on the top right corner click on 'Add Shortcut to drive'.
Step-3 Create a new google colab notebook on your personal gmail account and 'mount your drive' onto it.
Step-4 Unzip the data zip file in your colab notebook
Step-5 There are 3 datasets in the data folder - Train, Test and Validation.

- Train an image recognition model on the Train dataset only which achieves high overall accuracy on Validation dataset.
- Model should be trained from scratch, one cannot use transfer learning or pre-trained models.
- Before training block print the size of train and validation dataset in your colab notebook.
- Obtain predictions on Test Dataset and store the result in a csv file in the format as prescribed in sample_submission.csv file.
- Write your inference and observation about the model and data in the last section of colab notebook.

JUDGING CRITERIA

You will be judged on the basis of the following criteria:

A. **Data**: How well are you able to utilize the underlying trends in data and use it to your benefit, How are you curating the data for the experiment?
B. **Choice of ML/DL model:** What was your thought process behind choosing the ML/DL model, optimizer, loss, training methodology etc.
C. **Results:** How good are your results?
D. **Error Correction:** What were the failures and what did you do to fix them?
E. **Naming Convention:** Variable and Function names should be relevant and self-explanatory

SUBMISSION RULES

1. Obtain confusion metrics and classification report on train and validation dataset in your colab notebook.
2. All your code must be written in the colab notebook itself. Convert the notebook into PDF after running all code cells.
3. Run your model on the test dataset and share the predictions in excel format as described above
4. Share the colab notebook in .ipynb format, PDF of colab notebook, csv file of test results with us.

RULES

A. Do not copy/paste your code from somewhere, our plagiarism detector will flag it and you will immediately be disqualified.
B. Do not share the dataset, the notebook or any related work in public.