

README

1. First, we need to split the train dataset into train and val in the ratio 9:1. For this run the split dataset notebook (*Split dataset.ipynb*) in Split dataset folder. Please note the directory where you are splitting as this would be required to be pasted in the *load_datasets()* function in the specific notebooks.
2. Since Xception and InceptionResNetV2 are not available in pytorch I have taken these models from other sources (<https://github.com/Cadene/pretrained-models.pytorch/blob/master/pretrainedmodels/models>).
3. Since these models were very large, they were fine tuned in kaggle. Therefore to run it on the machine please comment out cells like
`sys.path.append('/kaggle/input/xception/')`
`sys.path.append('/kaggle/input/incepresv2/')`.
4. To reproduce results of sweep of Xception model configurations run *Xception.ipynb*.
5. To reproduce results of sweep of Inception V3 model configurations run *Inception V3.ipynb*. Please note that first cell of this notebook contains all the models. Therefore, **you can run the sweep for any other model by just commenting out others.**
6. To reproduce results of sweep of all 4 pretrained models for best configurations run *All 4 Pretrained Models Sweep.ipynb*.