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Program - M.tech

Stream- Signal Processing

SR no - 21117

Assignment - 5

Note:

3. To run the code, first extract the zip file and then open the DIP_assignment5.ipynb file on colab or on the local machine. All used steps are written in colab file.
4. To see the output of ipynb file please [click here](#).

Q.1 Obsevation(s)

- (i) I have used the ResNet50 pre-trained model on the 'imagenet' dataset.
- (ii) It is giving an accuracy of 86 percent on the test dataset.
- (iii) ResNet50 model last fc layer has feature shape (7, 7, 2048) for each input image.

```
conv5_block3_add (Add)          (None, 7, 7, 2048)    0          ['conv5_block2_out[0][0]',  
                                     'conv5_block3_3_bn[0][0]']  
  
conv5_block3_out (Activation)   (None, 7, 7, 2048)    0          ['conv5_block3_add[0][0]']
```

=====

And now print the accuracy of the model

```
[157] print('Accuracy of the model is :', accuracy_score(predict_output, testy))
```

```
Accuracy of the model is : 0.86
```