DEEP LEARNING PRACTICAL 7

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J018

BTech Data Science 3rd year

Code :- https://github.com/visheshtechie/DL/blob/master/Lab7_Data_augmentation_flow_directory_J018.ipynb

Aim :-

How to get images from Image net part 2.

Observations :-

The URLs used are –

1. http://www.image-net.org/api/text/imagenet.synset.geturls?wnid=
2. http://www.image-net.org/api/text/imagenet.synset.geturls?wnid=n04194289%22

The images from the site are downloaded. 2 directories are created to store these images. The images used are of cats and dogs. After the images are saved in the folder, a dataframe is created. Similar dataframe is created for test. The images are passed through a generator function for both train and validation sets. A Sequential model is created with 6 layers. The 6 layers are conv2D, flatten, dense, relu, dense,sigmoid. The model is then evaluated and a roc_auc_score is generated. The output is predicted.

```
AUC validation score
    0.9134199134199134
```