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**J009**

**B.Tech (Data Science) – 3rd Year**

**J1 Batch**

# Practical- 6

**Aim:**

To understand how to go about data augmentation using ImageNet.

**Observations:**

* 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.
* **Outputs:**

AUC validation score

0.5

A screenshot of a cell phone

Description automatically generated

**Inference:**

Learnt about confusion matrix while classifying and data augmentation to get images from ImageNet.