**Steps Followed**

1. **Import Library**
2. **Define Constants for IMGAE related parameters.**
3. **Read Training data and assigned category {0,1} for cat and dog .This will help to handle the data.**
4. **check sample image via loading**

**5. Build model :**

Convolutional layer 1 with 32 filters of kernel size[5,5]

● Pooling layer 1 with pool size[2,2] and stride 2

● Convolutional layer 2 with 64 filters of kernel size[5,5]

● Pooling layer 2 with pool size[2,2] and stride 2

● Dense layer whose output size is fixed in the hyper parameter: fc\_size=32

● Dropout layer with dropout probability 0.4

1. **Tried using Keras.callbacks also**
2. **Prepared data**
3. **Written Training generator**
4. **Written Validation generator via reading test dataset**
5. **Model Fitting done**
6. **Save model**