

DIP Assignment 5

Q1. First, a pre-trained VGG16 model is used to extract the features from the images. A KNN classifier is then trained on these features and finally, the same VGG16 model is used to extract the features from test images. The test images features are then used for prediction.

Following is the Validation Set Accuracy and Test Set Accuracy Scores:

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Accuracy score on Validation Set: 0.79  
Accuracy score on Test Set: 0.85
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As we can see, the Neural Network shows 85% accuracy on test images. This can further be improved by using more images in the training set.