

Assignment-4

Level: Median

CIFAR 10 CLASSIFICATION: This can be a mini-project for you!

Dataset Description

- CIFAR-10 is a dataset that consists of several images divided into the following 10 classes:
 - Airplanes
 - Cars
 - Birds
 - Cats
 - Deer
 - Dogs
 - Frogs
 - Horses
 - Ships
 - Trucks
- The dataset stands for the Canadian Institute For Advanced Research (CIFAR)
- CIFAR-10 is widely used for machine learning and computer vision applications.
- The dataset consists of 60,000 32x32 color images and 6,000 images of each class.
- Images have low resolution (32x32).
- Data Source: <https://www.cs.toronto.edu/~kriz/cifar.html>

TASK: BUILD A CNN MODEL for the dataset

NOTE: the dataset can be accessed using:

```
from keras.datasets import cifar10  
(X_train, y_train) , (X_test, y_test) = cifar10.load_data()
```

Upload your model, training set etc. on your github profile.