

The project is "Image classification on CIFAR10 dataset"

The CIFAR dataset link is <https://www.cs.toronto.edu/~kriz/cifar.html>

**Step 1:**

write a short paragraph to describe your understanding of image classification task. Also please include a plan (e.g., overall system flowchart), expected outputs and anything you think it should be included.

**Step 2:**

build a basic **Alex net** using tensorflow from scratch. Train the net using CIFAR training data. Use **Tensorboard** to help visualize and analyze the training and testing procedure.

**Step 3:**

Use **pre-trained deep model (VGG or ResNet-18)** to build image classification model, i.e., fine-tune with CIFAR dataset. Use Tensorboard to help visualize and analyze the training and testing procedure.

**Step 4:**

Analyse training/testing error and prepare the report for your observation and conclusion.