ML problem Statement

Image Classification

Problem Statement

In this competition, the main goal is to build an image classification model which can classify the images into following 6 categories- buildings, forest, glacier, mountain, sea, and street. The participants must analyze possible techniques to classify these and develop a computer vision model that gives a reasonable accuracy during prediction.

Dataset

The data set consists of around images which are divided into 6 categories - buildings, forest, glacier, mountain, sea, and street.
It is divided into three parts of training, testing and prediction.
The link for the data set is
https://drive.google.com/drive/folders/1HexjMzuI9lX6Y5nn_uvkc7DuigYs1lwl?usp=sharing

Judging Criteria

- The team ranking will be decided based on the highest points which will be calculated using accuracy score.
- Accuracy score = (total points from correct classifications) /(total number of classifications made)
- You may also report any other parameter you think your model can use to give better results

Submission Format

- The participants need to submit their working code files of both training and testing codes with details on how to use the functions or weight files (if any) to predict labels of images.
- The teams need to share the weight files used for prediction (if any)
- The directory structure for submission is as described below. The code should run without any errors in running the main file in the codes directory.

Submission folder

- ➢ Codes of both testing and training
  - Main.py (or equivalent)
  - (Other Files)
  - Readability of Code includes points
- ➢ Model
  - Weight files (if any)
  - A csv file which stores the results of the predictions made on test data set. You can use the following link on how the csv file can be created https://stackoverflow.com/questions/34864695/saving-prediction-results-to-csv
- ➢ Documentation

    - A less than or equal to two-page document in pdf format describing the model's working, specifications and capabilities. It should also include the direction to run the code.
    - The document must include the accuracy score you have obtained by running the model on test data set.
- Upload the submission folder on the google drive and share the link for the drive on the following email id softwarecorner@techkriti.org with the subject of the email as ML_Hackathon Techkriti21.
- Any submission mail received after 8:10pm on 14/03/2021 will not be evaluated

Note:
We will be running your code on test data set and if our results vary from yours the team might get eliminated . So make sure you do not report false results.