Image Super-Resolution

Overview:

DIV2K is a popular single-image super-resolution dataset that contains 1,000 images with different scenes and is split into 800 for training, 100 for validation, and 100 for testing. It was collected for NTIRE2017 and NTIRE2018 Super-Resolution Challenges in order to encourage research on image super-resolution with more realistic degradation. This dataset contains low-resolution images with different types of degradations. Apart from the standard bicubic downsampling, several types of degradations are considered in synthesizing low-resolution images for different tracks of the challenges

In this Hackathon, your task is to build an algorithm capable of performing super-resolution to achieve the best PSNR score.

Data:

Download following from here data.vision.ee.ethz.ch/cvl/DIV2K/DIV2K_train_HR.zip

Follow from here https://blog.paperspace.com/image-super-resolution/ to learn more about Super-resolution

Public and Private LeaderBoard

- Your initial responses will be checked and scored on the Public data.
- The final rankings would be based on your private score which will be published once the competition is over.

Evaluation Criteria

Your model performance will be evaluated on the basis of the **PSNR Score**.

Rubric

Component	Weightage
Data Cleaning and Data Visualization	25%
Model Building and Evaluation	60%
Pipeline and Deployment (Dashboard/Webapp)	15%