

Following model was trained in MATLAB using “deepNetworkDesigner”.

The folder has the following contents:

1. .mat files for trained network and other valuable variables in “MAT files” folder
2. Dataset used in “Data” folder
3. Script and Live script files in “Code” folder

Dataset: Scene Classification Data

Dataset Link:

<https://drive.google.com/file/d/1JRmlrCBQsq4pCpAErtEM66R1WYugdZnC/view?usp=sharing> (Used seg_test)

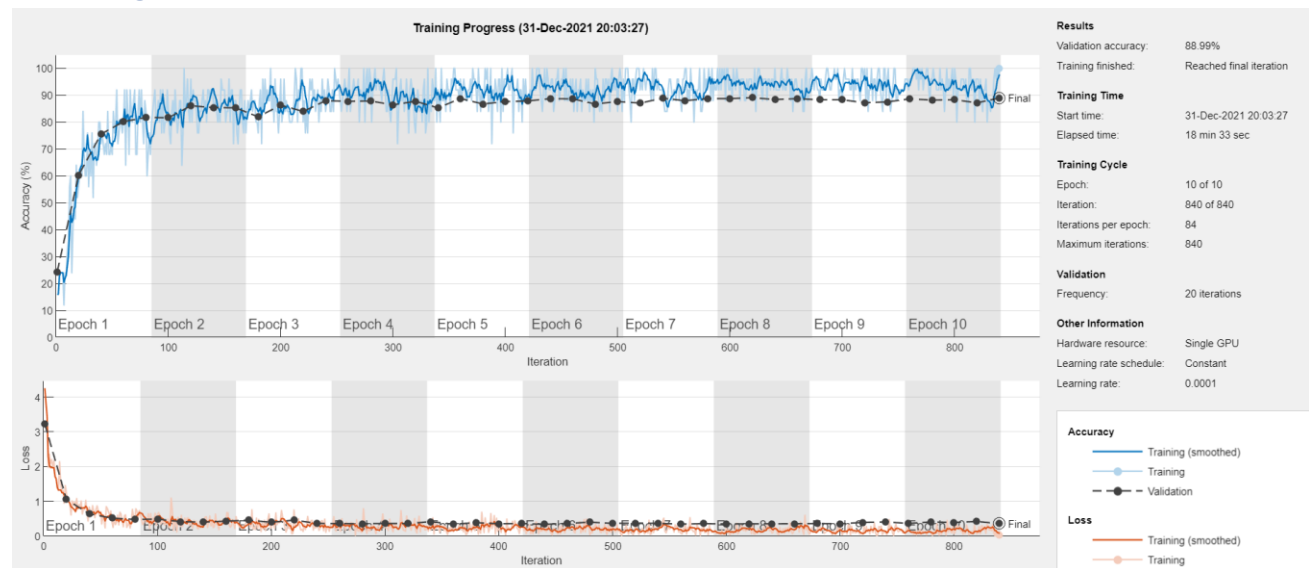
alternate link: https://www.kaggle.com/puneet6060/intel-image-classification?select=seg_test (seg_test)

6 classes for scenes --> 'buildings', 'forest', 'glacier', 'mountain', 'sea', 'street'

Train set: 2.1K 150*150 images

Test set: 0.9K 150*150 images

Training Process:



Model Information and Results:

Pretrained model for transfer learning = **SqueezeNet**

Resized raw input to (227, 227)

Field ▲	Value
TrainingLoss	1x840 double
TrainingAccuracy	1x840 double
ValidationLoss	1x840 double
ValidationAccuracy	1x840 double
BaseLearnRate	1x840 double
FinalValidationLoss	0.3575
FinalValidationAccuracy	88.9878

Final Accuracy = 88.9878 %