

Steganography

Dajun Xu

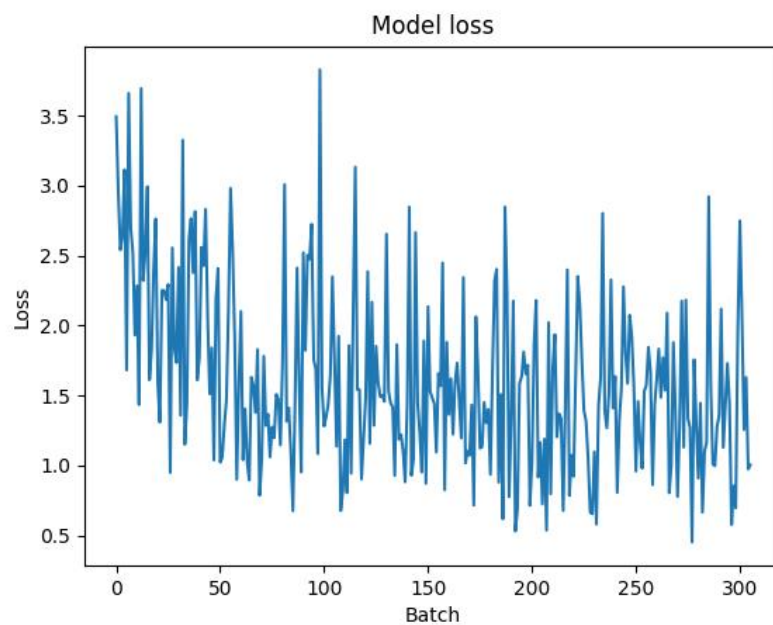
LSB:

The algorithm follows directly from the idea provided in project description, and some codes were modified from <https://github.com/kelvins/steganography>. Some test images are shown below.

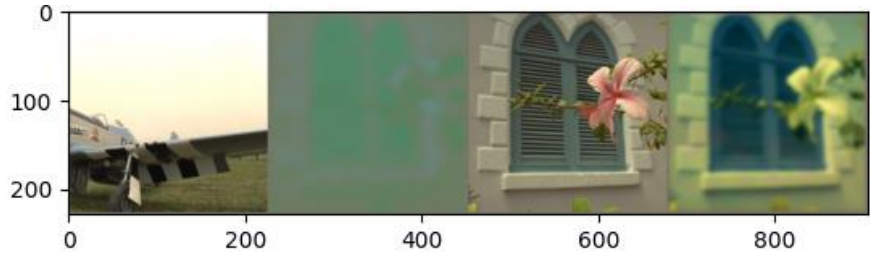


NN:

The algorithm from <https://github.com/fpingham/DeepSteg> was used here, and the model was trained with data sets on Kaggle (256 x 256) and then tested against the Kodak suite. The loss-diagram is shown below:



The results had large loss when the training set is small or homogeneous (such as using only the Opencountry image set), a bad result is shown below:



However, when larger training set containing dissimilar images were used, the trained model became better, and some results are shown below:

