**In class Programming Assignment - 5**

**GitHub Link:** [**https://github.com/AkhilaBollepalli/ICP5**](https://github.com/AkhilaBollepalli/ICP5)

**Video Explanation:** [**click here**](https://drive.google.com/file/d/1LljX7a4uAHTp35cpD7XHk2Jf1y2sIE7Q/view?usp=sharing)

**Problem :** Add one more hidden layer to autoencoder

**Solution:**

A screenshot of a computer program

Description automatically generated

A computer screen shot of a code

Description automatically generated

**OUTPUT:**

A screenshot of a computer code

Description automatically generated

* **Problem:** Do the prediction on the test data and then visualize one of the reconstructed version of that test data. Also, visualize the same test data before reconstruction using Matplotlib
* Repeat the question 2 on the denoisening autoencoder
* plot loss using the history object

**Solution:**

**A screenshot of a computer program

Description automatically generated**

**A comparison of a pixelated image

Description automatically generated**

**A screenshot of a computer program

Description automatically generated**

**A screenshot of a computer program

Description automatically generated**

**A computer screen shot of a code

Description automatically generated**

**OUTPUT:**

**A screenshot of a computer code

Description automatically generated**

**A screenshot of a computer code

Description automatically generated**

**OUTPUT:**

**A screenshot of a graph

Description automatically generated**

A close-up of a white background

Description automatically generated

**OUTPUT:**

A graph with blue and orange lines

Description automatically generated