Neural Network Deep Learning

Assignment - 8

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Github Link: https://github.com/kishorreyansh/Neural-Network-Deep-Learning/tree/main/Assignment-8

Lesson Overview:

In this lesson, we are going to discuss types and applications of Autoencoder.

Programming elements:

- 1. Basics of Autoencoders
- 2. Role of Autoencoders in unsupervised learning
- 3. Types of Autoencoders
- 4. Use case: Simple autoencoder-Reconstructing the existing image, which will contain most important

features of the image

5. Use case: Stacked autoencoder

In class programming:

- 1. Add one more hidden layer to autoencoder
- 2. 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

- 3. Repeat the question 2 on the denoisening autoencoder
- 4. plot loss and accuracy using the history object















