**DEEP LEARNING ICP6**

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**Lesson Overview:**

In this lesson, I have learned the types of Autoencoders.

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

1.Add one more hidden layer to autoencoder

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2. visualize the input and reconstructed representation of the autoencoder using Matplotlib

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3. visualize the input, noisy input and reconstructed representation(denoised output)of the Denoising\_Autoencoder using Matplotlib

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4. plot loss and accuracy using the history object

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