**Summer 2024: CS5720**

**NEURAL NETWORK AND DEEP LEARNING ICP 04**

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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

**GITHUB LINK: https://github.com/nyeldi/NNDL**

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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

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A collage of images of clothes

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3. Repeat the question 2 on the denoising autoencoder

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4. plot loss and accuracy using the history object

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