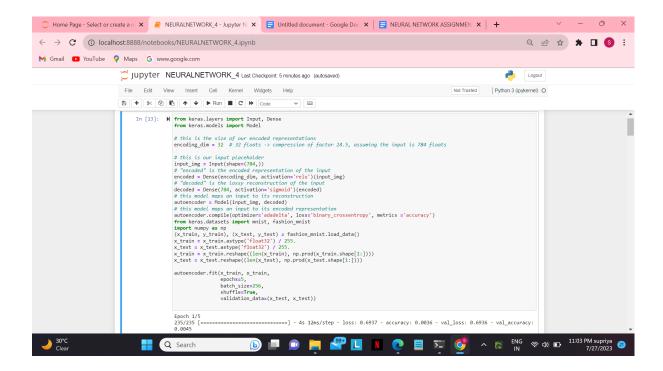
## **NEURAL NETWORK ASSIGNMENT 4**

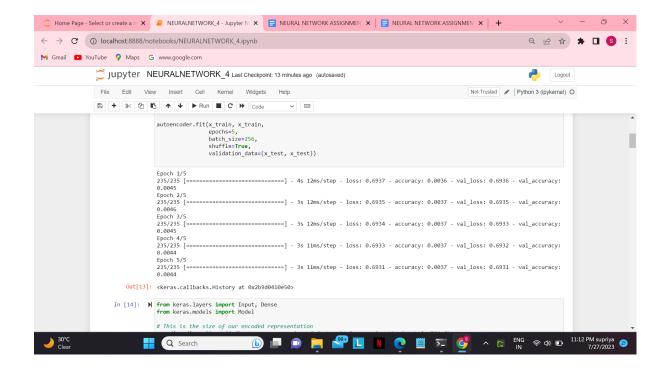
NAME: SUPRIYA SAMA 700744510

## Video Link:

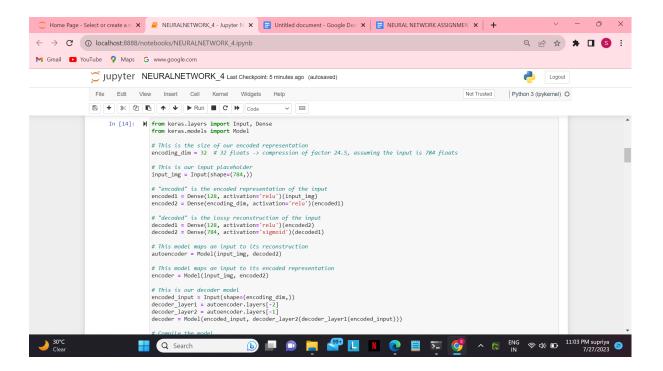
https://drive.google.com/file/d/1qfKP7\_oLaT-EA4XuJthFmwE1FCJFl qjn/view?usp=sharing

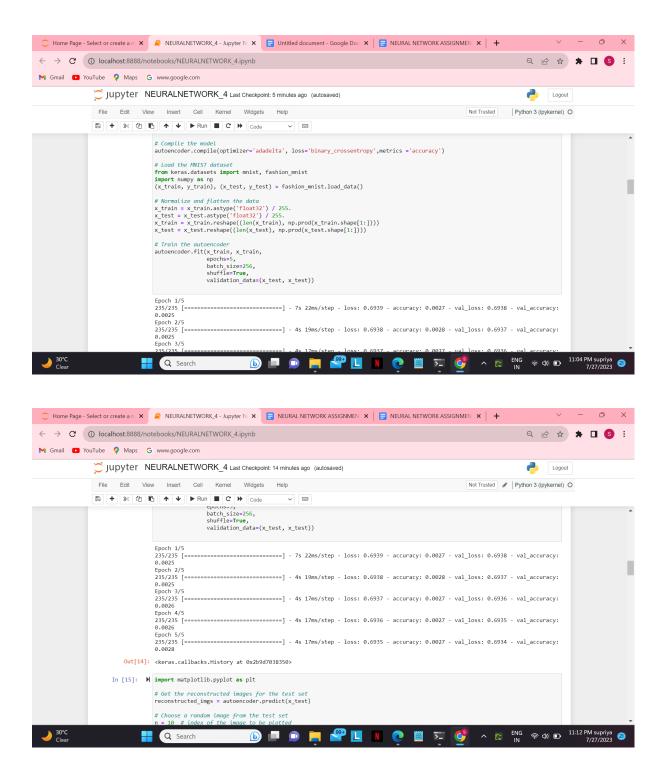
1. Let's import the Dense function from the keras.



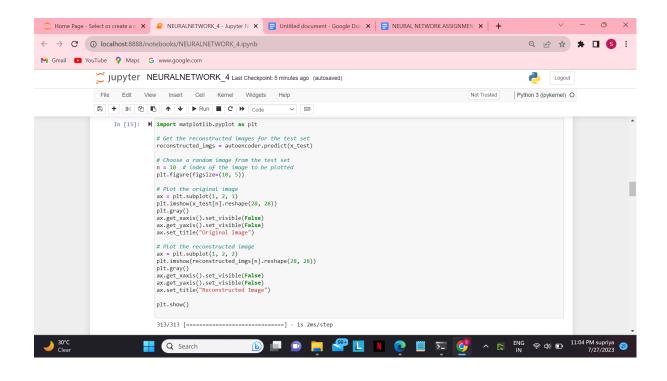


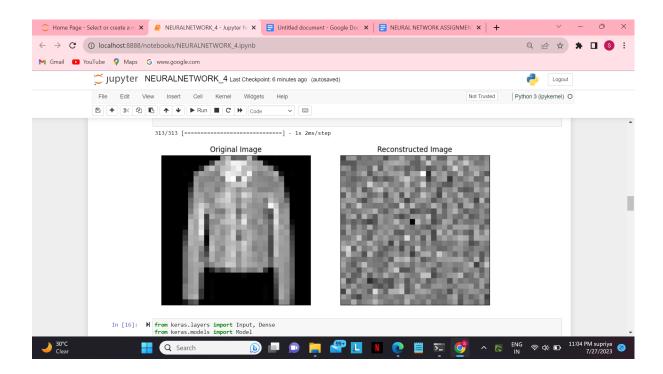
Here I have added hidden layers to the autoencoder.





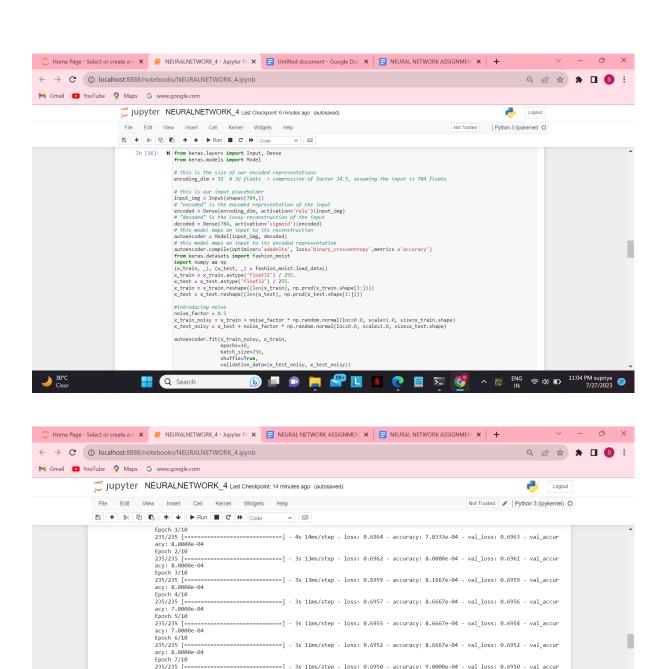
2. I have imported matplotlib as plt and plotted original and reconstructed images.





We can see the output of original and reconstructed images.

3. Let's repeat the process on the denoising autoencoder.



L

=========] - 3s 13ms/step - loss: 0.6948 - accuracy: 8.6667e-04 - val\_loss: 0.6948 - val\_accur 

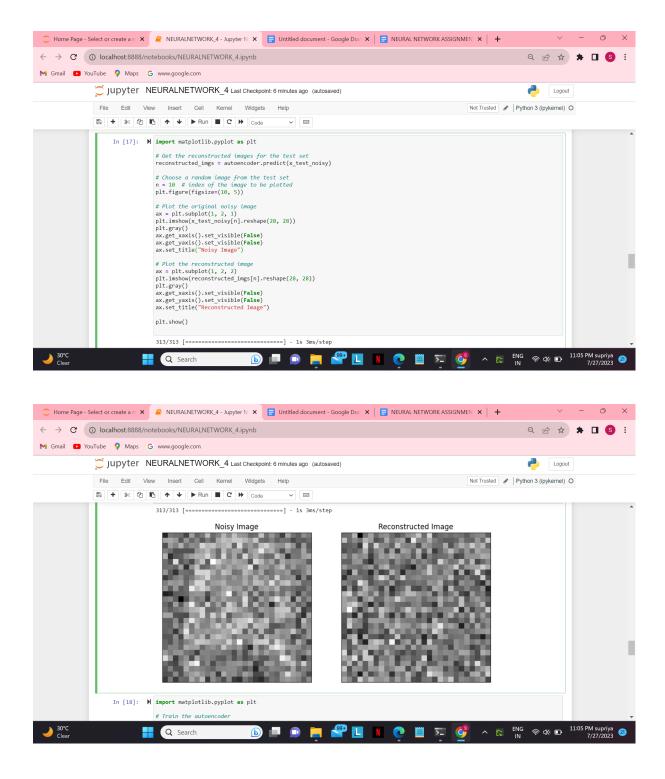
<u>></u>

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235/235 [------acy: 9.0000e-04
Epoch 8/10
235/235 [-----acy: 0.0011
Epoch 9/10
235/235 [-----acy: 0.0013
Epoch 10/10
235/235 [-----acy: 0.0013

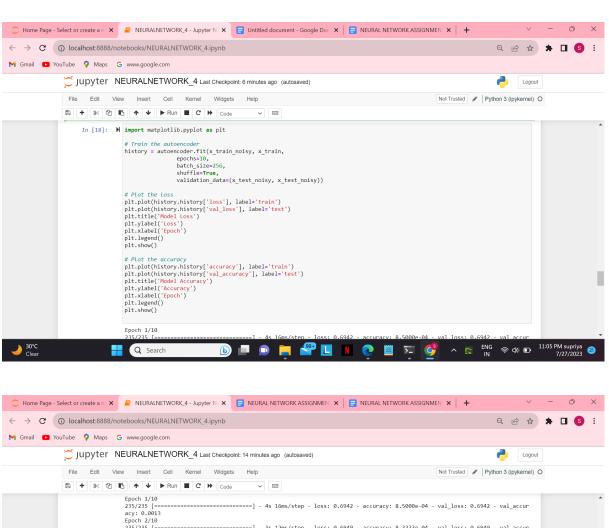
**(b)** 

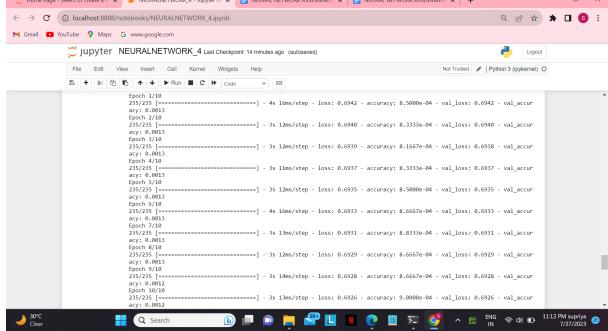
Q Search

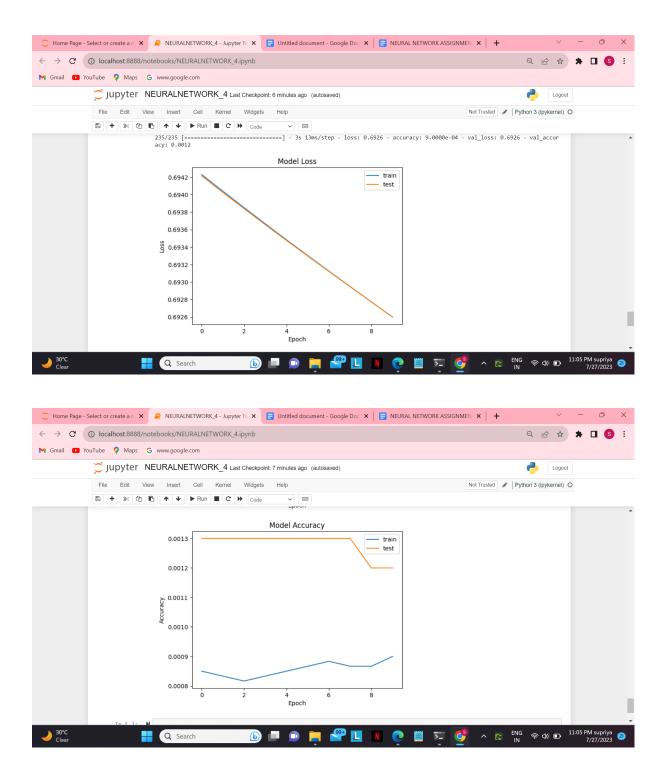


We can see the output of noisy and reconstructed images.

4. Let's train the autoencoder and plot the loss and accuracy.







We can see the output of both loss and accuracy.