

NEURAL NETWORKS & DEEP LEARNING: ICP4

SCREENSHOTS

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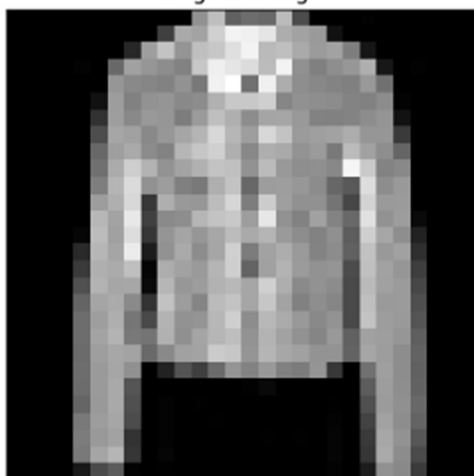
GITHUB LINK: <https://github.com/maddalareshma/NNDL-ICP4>

```
Epoch 1/5
235/235 [=====] - 4s 12ms/step - loss: 0.6937 - accuracy: 0.0036 - val_loss: 0.6936 - val_accuracy: 0.0045
Epoch 2/5
235/235 [=====] - 3s 12ms/step - loss: 0.6935 - accuracy: 0.0037 - val_loss: 0.6935 - val_accuracy: 0.0046
Epoch 3/5
235/235 [=====] - 3s 12ms/step - loss: 0.6934 - accuracy: 0.0037 - val_loss: 0.6933 - val_accuracy: 0.0045
Epoch 4/5
235/235 [=====] - 3s 11ms/step - loss: 0.6933 - accuracy: 0.0037 - val_loss: 0.6932 - val_accuracy: 0.0044
Epoch 5/5
235/235 [=====] - 3s 11ms/step - loss: 0.6931 - accuracy: 0.0037 - val_loss: 0.6931 - val_accuracy: 0.0044
```

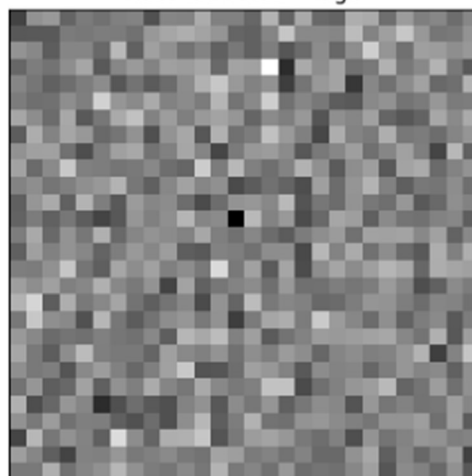
|: <keras.callbacks.History at 0x2b9d0410e50>

```
Epoch 1/5
235/235 [=====] - 7s 22ms/step - loss: 0.6939 - accuracy: 0.0027 - val_loss: 0.6938 - val_accuracy: 0.0025
Epoch 2/5
235/235 [=====] - 4s 19ms/step - loss: 0.6938 - accuracy: 0.0028 - val_loss: 0.6937 - val_accuracy: 0.0025
Epoch 3/5
235/235 [=====] - 4s 17ms/step - loss: 0.6937 - accuracy: 0.0027 - val_loss: 0.6936 - val_accuracy: 0.0026
Epoch 4/5
235/235 [=====] - 4s 17ms/step - loss: 0.6936 - accuracy: 0.0027 - val_loss: 0.6935 - val_accuracy: 0.0026
Epoch 5/5
235/235 [=====] - 4s 17ms/step - loss: 0.6935 - accuracy: 0.0027 - val_loss: 0.6934 - val_accuracy: 0.0028
```

Original Image



Reconstructed Image

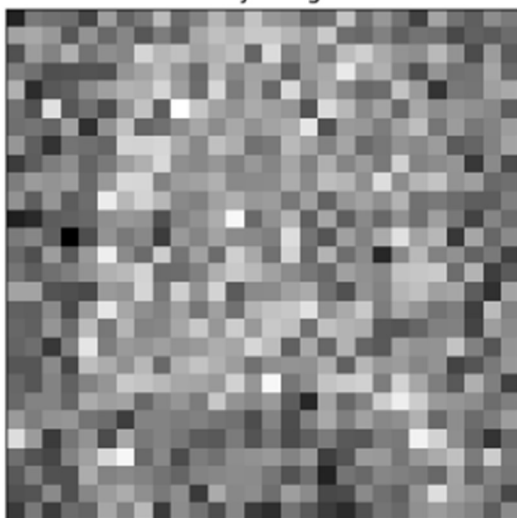


```

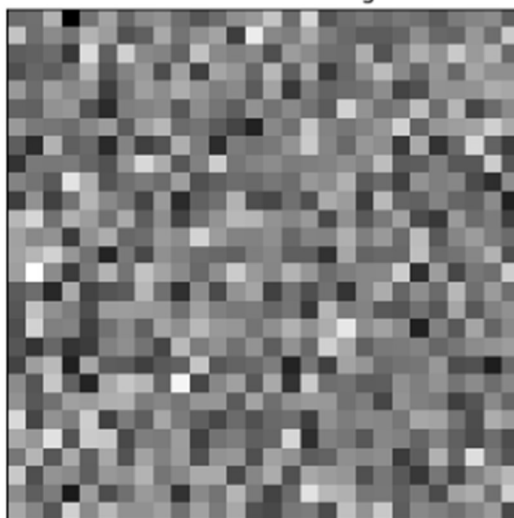
Epoch 1/10
235/235 [=====] - 4s 14ms/step - loss: 0.6964 - accuracy: 7.8333e-04 - val_loss: 0.6963 - val_accu
acy: 8.0000e-04
Epoch 2/10
235/235 [=====] - 3s 13ms/step - loss: 0.6962 - accuracy: 8.0000e-04 - val_loss: 0.6961 - val_accu
acy: 8.0000e-04
Epoch 3/10
235/235 [=====] - 3s 13ms/step - loss: 0.6959 - accuracy: 8.1667e-04 - val_loss: 0.6959 - val_accu
acy: 8.0000e-04
Epoch 4/10
235/235 [=====] - 3s 11ms/step - loss: 0.6957 - accuracy: 8.6667e-04 - val_loss: 0.6956 - val_accu
acy: 7.0000e-04
Epoch 5/10
235/235 [=====] - 3s 11ms/step - loss: 0.6955 - accuracy: 8.6667e-04 - val_loss: 0.6954 - val_accu
acy: 7.0000e-04
Epoch 6/10
235/235 [=====] - 3s 11ms/step - loss: 0.6952 - accuracy: 8.6667e-04 - val_loss: 0.6952 - val_accu
acy: 8.0000e-04
Epoch 7/10
235/235 [=====] - 3s 11ms/step - loss: 0.6950 - accuracy: 9.0000e-04 - val_loss: 0.6950 - val_accu
acy: 9.0000e-04
Epoch 8/10
235/235 [=====] - 3s 13ms/step - loss: 0.6948 - accuracy: 8.6667e-04 - val_loss: 0.6948 - val_accu
acy: 0.0011
Epoch 9/10
235/235 [=====] - 3s 11ms/step - loss: 0.6946 - accuracy: 8.6667e-04 - val_loss: 0.6946 - val_accu
acy: 0.0013
Epoch 10/10
235/235 [=====] - 3s 11ms/step - loss: 0.6944 - accuracy: 8.3333e-04 - val_loss: 0.6944 - val_accu
acy: 0.0013

```

Noisy Image



Reconstructed Image



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Epoch 1/10
235/235 [=====] - 4s 16ms/step - loss: 0.6942 - accuracy: 8.5000e-04 - val_loss: 0.6942 - val_accu
acy: 0.0013
Epoch 2/10
235/235 [=====] - 3s 12ms/step - loss: 0.6940 - accuracy: 8.3333e-04 - val_loss: 0.6940 - val_accu
acy: 0.0013
Epoch 3/10
235/235 [=====] - 3s 12ms/step - loss: 0.6939 - accuracy: 8.1667e-04 - val_loss: 0.6938 - val_accu
acy: 0.0013
Epoch 4/10
235/235 [=====] - 3s 11ms/step - loss: 0.6937 - accuracy: 8.3333e-04 - val_loss: 0.6937 - val_accu
acy: 0.0013
Epoch 5/10
235/235 [=====] - 3s 12ms/step - loss: 0.6935 - accuracy: 8.5000e-04 - val_loss: 0.6935 - val_accu
acy: 0.0013
Epoch 6/10
235/235 [=====] - 4s 16ms/step - loss: 0.6933 - accuracy: 8.6667e-04 - val_loss: 0.6933 - val_accu
acy: 0.0013
Epoch 7/10
235/235 [=====] - 3s 13ms/step - loss: 0.6931 - accuracy: 8.8333e-04 - val_loss: 0.6931 - val_accu
acy: 0.0013
Epoch 8/10
235/235 [=====] - 3s 12ms/step - loss: 0.6929 - accuracy: 8.6667e-04 - val_loss: 0.6929 - val_accu
acy: 0.0013
Epoch 9/10
235/235 [=====] - 3s 14ms/step - loss: 0.6928 - accuracy: 8.6667e-04 - val_loss: 0.6928 - val_accu
acy: 0.0012
Epoch 10/10
235/235 [=====] - 3s 13ms/step - loss: 0.6926 - accuracy: 9.0000e-04 - val_loss: 0.6926 - val_accu
acy: 0.0012

```

