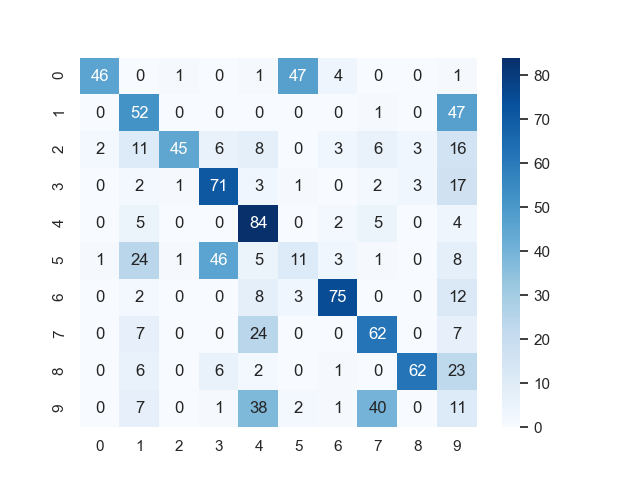
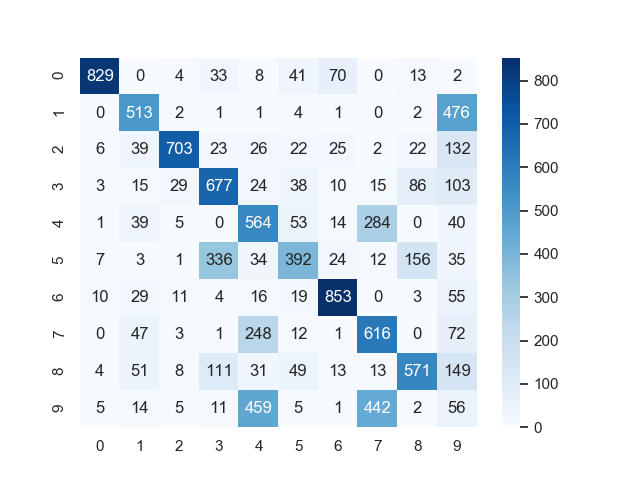
1. k-means



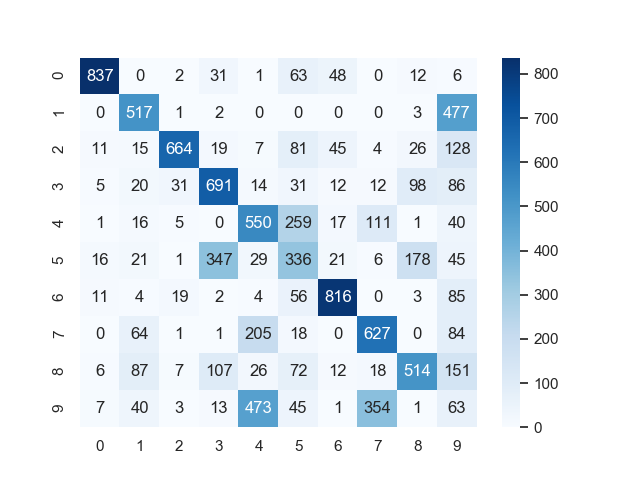
Accuracy: 0.519

2.

a. K-means with feature vectors from autoencoder (trained 20 epochs)

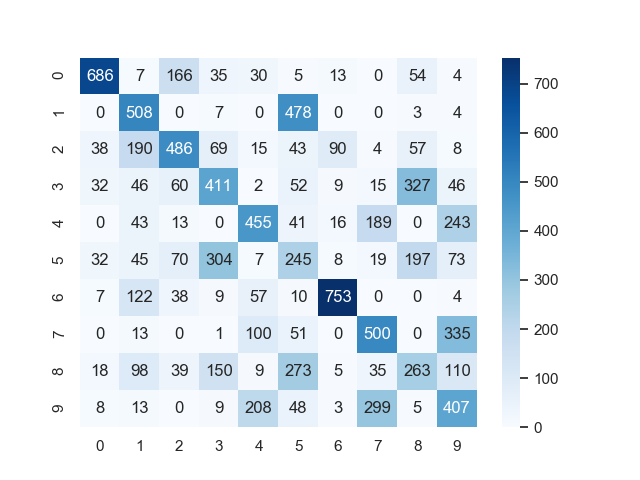
Accuracy = 0.5774

b. K-means with PCA using 10 PC’s.



Accuracy = 0.5615

k-means with PCA using 4 PC’s



Accuracy: 0.4714

3.

a. Using salt and pepper noise method linked in doc.

b. ratio of noise: ~1/3rd of the pixels are changed to noise. (there’s not check for redditive pixels being chosen so the maximum number of pixels changed is 1/3rd – regardless though, it’s roughly 1/3rd of pixels that are changed)

c.