

Homework

Reading: Raschka Chapter 5 (focus on understanding PCA), 11 (~everything)

Coding

- Visualize the MNIST dataset using t-SNE
 - [Sklearn documentation](#). Use a different implementation if you prefer.
Describe your observations.
- Implement an autoencoder on the MNIST dataset. Use Keras to train the network, see [example](#) (DON'T COPY, do your own).
- Provide demo of autoencoder working
 - for autoencoder show before/after examples for at least one example for each digit
 - Make sure the autoencoder hasn't seen the sample digits before!
 - discuss the hyperparameters/decisions you made and why, generally liberally document your code to demonstrate that you know what you're doing