Homework

Reading

- Hands on ML - 111-142 (Linear Regression), 153-174 (SVMs)

- Raschka - Chapters 3 & 10

Coding

- Use Restaurant Revenue Prediction dataset. As usual, create train/val/test sets (sample code).

    o Use scikit KNN regressor to train a model.

    o Use TensorFlow's Keras to train a regression model.

    o Extra Credit: use scikit's SVM Regressor to train a regression model.

    o Report on MAE, MSE, RMSE - what qualities do you notice?

    o [note: you need to sign up and agree to terms to download the data from Kaggle - should only take ~5 min of your time]

- Remember to explain/document your code and display loss curves as well as test performance. Compare the models' performance.

- Don't cheat - there are many examples of this dataset being used online. Don't copy them. You'll get caught and referred to the Academic Integrity Committee. Ask if you have questions. Cite all sources of inspiration or guidance you find online. Write your own code.