Stats For Data Science Outline

Week 1

- 1. Day 1:
 - $\bullet \ \, Slides: \ 01_Introduction_to_Statistics.pdf \\$
 - Installing Anaconda
- 2. Day 2:
 - Slides: 02_What_is_Data.pdf
 - Notebook: 01_Exploratory_Data_Analysis_Part_1_Single_Variable.ipynb
 - Exercise: 01_Single-Variable_EDA.txt

Week 2

- 1. Day 1:
 - Notebook: 02_Exploratory_Data_Analysis-Part_2_Two_Variable.ipynb
 - Exercise: 02_Multi-Variable_EDA.txt
- 2. Day 2:
 - Review Exercise 01
 - Slides: 03_Probability_Part_1_Basics_to_Conditional.pdf

Week 3

- 1. Day 1:
 - Review Exercise 02
 - Slides: 04_Probability_Part_2_Random_Variables.pdf
 - $\bullet \ \ Notebook: \ 03_Probability_Calculations_Part_1_Binomial_Normal.ipynb$
 - Exercise: 03_Probability.txt (Binomial and Normal Parts)
- 2. Day 2:
 - Slides: 05_Probability_Part_3_Poisson.pdfi
 - $\bullet \ \ Notebook: \ 04_Probability_Calculations_Part_2_Poisson.ipynb$
 - Exercise: 03_Probability.txt (Poisson and Exponential Parts)

Week 4

1. Day 1:

- Review Exercise 03
- Slides: estimation_01.pdf (contained in slides_tex folder)
- \bullet Notebook: Estimation_Part_1.ipynb
- Exercise: 04_Confidence_Intervals.txt
- 2. Day 2:
 - Slides: estimation_02.pdf (contained in slides_tex folder)
 - Notebook: Estimation_Part_2.ipynb
 - \bullet Exercise: 05_Bootstrap_Confidence_Intervals.txt

Week~5 Hypothesis Testing - both classical and permutation tests

Week 6 Linear and Logistic Regression

- 1. Day 1:
 - Slides: linear_regression_01.pdf (in slides_tex folder)
- 2. Day 2:
 - Slides: logistic_regression_01.pdf (in slides_tex folder)