

Stats For Data Science Outline

Week 1

1. Day 1:

- 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
- 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.pdf
- 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)
- 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
- Exercise: 05_Bootstrap_Confidence_Intervals.txt

Week 5 Hypothesis Testing - both classical and permutation tests

Week 6 Linear and Logistic Regression