Topics & Readings – Module 1a (1 of 4)

- Machine Learning Overview Topics
  - ML Introduction and definition
  - ML Models
    - Underfitting
    - Overfitting
    - Goldilocks Model
  - Types of ML Tasks
    - Supervised Learning
    - Unsupervised Learning
    - Reinforcement Learning
  - Supervised Learning Example
    - Classification of Iris Data
  - Unsupervised Learning Example
    - Clustering of Wholesale Customer Data

Topics & Readings – Module 1a (2 of 4)

- Machine Learning Overview Topics (cont.)
  - ML Data Structure
    - Structured Data
    - Semi-structured Data
    - Unstructured Data
  - ML Tasks
  - ML Applications

Topics & Readings – Module 1a (3 of 4)

- Data Exploration Topics
  - Features or variables
  - Target Features or class labels
  - Feature Space
  - Types of data
    - Numerical
    - Categorical
  - Types of Plots
    - Scatter Plots
    - Histogram Plots
    - Density Plots
    - Bar Plots
    - Box-and-whisker Plots
    - Hexbin Plots

Topics & Readings - Module 1a (4 of 4)

- Readings
  - Data Science and Big Data Analytics
    - Chapter 3, Section 3.2, Exploratory Data Analysis.