MIS 0855 – Data Science (Section 005) – Fall 2016 Exam #3 Guide

Week 09 - Key Performance Indicators

- Criteria for good KPI S.M.A.R.T
- Why KPIs should be SMART
- Manipulation of performance indicators by hospitals or airlines

In-Class Exercise - Week 09 - Visualizing KPIs

- How to visualize the departure delay KPI in Tableau
- How to create a heatmap in Tableau

Assignment #4 – Cleaning a Dataset (and In-Class Exercise – Week 08)

How to use MATCH function in Excel

Week 11 – Predictive Analytics

- Examples of predictive analytics
- Collaborative filtering
- Measuring customer value with R.F.M.
- Three types of predictive analytics
- Association detection
- Regression
- Decision tree

In-Class Exercise – Week 11 – Simple Predictive Analytics

- Prediction interval (or confident interval)
- How to conduct an association analysis (association detection) in Tableau
- Outer join how we joined VadelayOrders records

In-Class Exercise – Week 12 – Integrating Data

- How to use VLOOKUP function in Excel
- How to use CONCATENATE function in Excel
- How to create a trend line in Tableau

Week 13 - Data Science and Your Career

- The causes of jobless recovery
- Beveridge curve
- The impact of technology development on employment