Course Schedule

Course Schedule (Subject to Change)

Week	Week Start Date	Topic	Quiz Due Date	Lab Class Content	Exercises	Exercise Due Date - All Sections
1	10-Jan-22	Class Expectations; Overview of Time Series Analysis and Forecasting	16-Jan-22	1. Lab Discussion 2. SAS Access Options: On Demand-loading and practice exercise	Practice	--
2	17-Jan-22	Segmentation - Kmeans/ SOM/ KNN	23-Jan-22	No Monday Lab - University Holiday Wednesday lab - Available for Monday and Online section on 1/19/22	Exercise 1	27-Jan-22
3	24-Jan-22	1. Decile analysis - SAS EM 2. Lift and Gain Charts - SAS EM 3. Data Exploration/ Data Visualization - SAS EM	30-Jan-22	1. Lab Discussion 2. Demo - SAS Viya Model Building 3. Group Exercise - SAS Viya	Exercise 2	3-Feb-22
4	31-Jan-22	Deeper DT	6-Feb-22	1. Lab Discussion 2. Demo - R 3. Group Exercise - R	Exercise 3	10-Feb-22
5	7-Feb-22	Deeper MR/ LR (Variable Selection, etc.)	13-Feb-22	1. Lab Discussion 2. Demo - Python	Exercise 4	17-Feb-22

				3. Group Exercise - Python		
6	14-Feb-22	Deeper ANN	20-Feb-22	1. Lab Discussion 2. Demo - SAS Viya Model Building 3. Group Exercise - SAS Viya	Exercise 5	24-Feb-22
7	21-Feb-22	Model assessment, model implementation and special topics; Association Rules (Market Basket Analysis)	27-Feb-22	Predictive Modeling Case Presentations (report and video due 2/21/2022)		
8	28-Feb-22	Introduction of text analytics	6-Mar-22	1. Lab Discussion 2. Demo - R 3. Group Exercise - R	Exercise 6	10-Mar-22
9	7-Mar-22	Advanced topics of text analytics including sentiment analysis and opinion mining	13-Mar-22	1. Lab Discussion 2. Demo - Python 3. Group Exercise - Python	Exercise 7	24-Mar-22
10	14-Mar-22	Spring Break				
11	21-Mar-22	Text Analytics Case Presentations (report and video due 3/21/2022)				
12	28-Mar-22	Deep Learning - Deep Neural Network	3-Apr-22	1. Lab Discussion 2. Demo - SAS Studio 3. Group Exercise - SAS Studio	Exercise 8	7-Apr-22
13	4-Apr-22	Deep Learning - Continuous Neural Network	10-Apr-22	1. Lab Discussion 2. Demo - R	Exercise 9	14-Apr-22

				3. Group Exercise - R		
14	11-Apr-22	Deep Learning - Recurrent Neural Network	17-Apr-22	1. Lab Discussion 2. Demo - Python 3. Group Exercise - Python	Exercise 10	21-Apr-22
15	18-Apr-22	Deep Learning - Recurrent Neural Network using Tensor Flow	24-Apr-22	1. Lab Discussion 2. Demo - SAS Studio 3. Group Exercise - SAS Studio	Exercise 11	28-Apr-22
16	25-Apr-22	Review of topics for final exam				
17	2-May-22	Comprehensive Final Exam (CRN 23804 - May 3rd - 4th CRN 25514 - May 4th 8:00 - 9:50 am; CRN 31713 - May 4th 10:00 - 11:50 am)				