

Session	Date& Time	Time	Topic	Sub-topics
1	9-Feb-20	0900-1200	Describing Data	Expectation Setting Variation and Variance Summarizing Variance
2	23-Feb-20	0900-1200	Inferential Statistics	Statistical Inference Random Sampling Confidence Interval Hypothesis testing
3	1-Mar-20	1215-0315	Testing for Non-Parametric Data	Hypothesis Testing for Ordinal Data Hypothesis Testing for Nominal Data
4	8-Mar-20	1400-1700	Testing for Relationship	ANOVA and Chi Square Testing
Quiz I and Assignment I due in 2 weeks				
5	15-Mar-20	0900-1200	Predictive Analytics using Regression Modeling	Multiple Linear Regression
6	22-Mar-20	0900-1200	Predictive Analytics using Regression Modeling	Multiple Linear Regression
7	29-Mar-20	0900-1200	Predictive Analytics using Time Series	Time Series Forecasting
8	5-Apr-20	0900-1200	Predictive Analytics using Time Series	Time Series Forecasting
Quiz II and Assignment II due in 2 weeks				
9	12-Apr-20	0900-1200	Overview of Python	Understanding Python Platform
10	19-Apr-20	0900-1200	Overview of Python	Python Packages for Machine Learning
11	26-Apr-20	0900-1200	Predictive Analytics using Classification	Cocept of Classification Modeling
12	3-May-20	0900-1200	Predictive Analytics using Classification	Logistic Regression
13	10-May-20	0900-1200	Predictive Analytics using Classification	Classification Trees and Random Forests
14	17-May-20	0900-1200	Predictive Analytics using Classification	Neural Networks
15	24-May-20	0900-1200	Predictive Analytics using Classification	Ensembling and Oversampling
Quiz III and Assignment III due in 2 weeks				
16	31-May-20	0900-1200	Predictive Analytics (Unsupervised Techniques)	Clustering
17	7-Jun-20	0900-1200	Predictive Analytics (Unsupervised Techniques)	Association Mining
18	14-Jun-20	0900-1200	Descriptive Analytics	Principles of Data Visualization

19	21-Jun-20	0900-1200	Descriptive Analytics	Geographic and Spatial Mapping
20	28-Jun-20	0900-1200	Text Mining	Sentiment Analysis
21	Campus Visit (Dates to be announced later)		Text Mining	Web-Scraping, Social Network Analysis
22			Project Presentations	

Cases and Datasets	Resource Person	Software
	Sumeet Gupta	Excel and SPSS
Classroom Exercises	Sumeet Gupta	Excel and SPSS
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Predicting the Price of a Car	Sumeet Gupta	R
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Forecasting Ridership in a Train	Sumeet Gupta	R
Forecasting Ridership in a Train	Sumeet Gupta	R

	Gopal Kumar	Python
	Gopal Kumar	Python
	Gopal Kumar	Python
Success of a Bank Marketing Campaign	Gopal Kumar	Python
Prediction Parole Violation	Gopal Kumar	Python
Credit Card Modeling	Gopal Kumar	Python
	Gopal Kumar	Python

Medical Imaging; Market Segmentation for Airlines	Sumeet Gupta	R
Cosmetic Retailing	Sumeet Gupta	R
Demographic Data	Sumeet Gupta	Tableau and R

Visualizing Murders and Theft	Sumeet Gupta	R
Twitter Data	Sumeet Gupta	R
Flipkart Reviews, How ISIS uses Twitter	Sumeet Gupta	R
	Gopal Kumar	R