

● Data Scientist nanodegree

Date	Study	Session
8 March Week 1	Kick-off	
15 March Week 2	Start watching videos from Welcome to the Nanodegree and Supervised Learning Complete sections: <ul style="list-style-type: none"> Machine Learning Bird's Eye View Linear Regression Perceptron Algorithm Decision Trees 	
22 March Week 3	Complete videos from Supervised Learning Complete sections: <ul style="list-style-type: none"> Naive Bayes Support Vector Machines Ensemble Methods 	Supervised Learning Session
29 March Week 4	Complete videos from Supervised Learning Complete sections: <ul style="list-style-type: none"> Model Evaluation Metrics Training and Tuning <u>Pass P1 Predicting Boston Housing Prices</u> Project	
5 April Week 5	Start watching videos from Deep Learning Complete sections: <ul style="list-style-type: none"> Introduction to Neural Networks Implementing Gradient Descent 	
12 April Week 6	Continue watching videos from Deep Learning Complete sections: <ul style="list-style-type: none"> Training Neural Networks Keras 	Deep Learning Session
19 April Week 7	Continue watching videos from Deep Learning Complete sections: <ul style="list-style-type: none"> Deep Learning with PyTorch <u>Pass P2 Image classifier</u> Project	

26 April Week 8	Start watching videos from Unsupervised Learning Complete sections: <ul style="list-style-type: none"> • Clustering • Hierarchical and Density Based Clustering • Gaussian Mixture Models and Cluster Validation 	
3 May Week 9	Continue watching videos from Unsupervised Learning Complete sections: <ul style="list-style-type: none"> • Dimensionality Reduction and PCA • Random Projection and ICA 	Unsupervised Learning Session
10 May Week 10	<u>Pass P3</u> Identify Customer Segments Project	
17 May Week 11	Competition	
24 May Week 12	Start watching videos from Introduction to Data Science Start sections: <ul style="list-style-type: none"> • The Data Science Process • Communicating to Stakeholders 	Intro to Data Science Session
31 May Week 13	Ramadan Break	
7 June Week 14	Eid Break	
14 June Week 15	<u>Pass P4</u> Write A Data Science Blog post Project	
21 June Week 16	Start watching videos from Software Engineering Start sections: <ul style="list-style-type: none"> • Software Engineering Practices P1 • Software Engineering Practices P2 	
28 June Week 17	Continue watching videos from Software Engineering Complete sections: <ul style="list-style-type: none"> • Introduction to Object-Oriented Programming • Web Development 	Data Engineering Session
5 July Week 18	Start watching videos from Data Engineering Start sections: <ul style="list-style-type: none"> • ETL Pipelines 	

	<ul style="list-style-type: none"> • NLP Pipelines • Machine Learning Pipelines <u>Pass P5 Disaster Response Pipeline Project</u>	
12 July Week 19	Start watching videos from Experimental Design & Recommendations Start sections: <ul style="list-style-type: none"> • Intro to Experiment Design and Recommendation Engines • Concepts in Experiment Design 	
19 July Week 20	Continue watching videos from Experimental Design & Recommendations Complete sections: <ul style="list-style-type: none"> • Statistical Consideration in Testing • Introduction to Recommendation Engines 	Recommendations Engines Session
26 July Week 21	Continue watching videos from Experimental Design & Recommendations Complete sections: <ul style="list-style-type: none"> • Matrix Factorization for Recommendations <u>Pass P6 Recommendation Engines Project</u>	
2 August Week 22	Work on Capstone Project P7	
9 August Week 23		Capstone Session
16 August Week 24		