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| **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:   * Machine Learning Bird’s Eye View * Linear Regression * Perceptron Algorithm * Decision Trees |  |
| 22 March  Week 3 | Complete videos from Supervised Learning  Complete sections:   * Naive Bayes * Support Vector Machines * Ensemble Methods | Supervised Learning Session |
| 29 March  Week 4 | Complete videos from Supervised Learning  Complete sections:   * Model Evaluation Metrics * Training and Tuning   Pass P1 **Predicting Boston Housing Prices** Project |  |
| 5 April  Week 5 | Start watching videos from Deep Learning  Complete sections:   * Introduction to Neural Networks * Implementing Gradient Descent |  |
| 12 April  Week 6 | Continue watching videos from Deep Learning  Complete sections:   * Training Neural Networks * Keras | Deep Learning Session |
| 19 April  Week 7 | Continue watching videos from Deep Learning  Complete sections:   * Deep Learning with PyTorch   Pass P2 **Image classifier** Project |  |
| 26 April  Week 8 | Start watching videos from Unsupervised Learning  Complete sections:   * Clustering * Hierarchical and Density Based Clustering * Gaussian Mixture Models and Cluster Validation |  |
| 3 May  Week 9 | Continue watching videos from Unsupervised Learning  Complete sections:   * Dimensionality Reduction and PCA * Random Projection and ICA | Unsupervised Learning Session |
| 10 May  Week 10 | Pass P3 **Identify Customer Segments** Project |  |
| 17 May  Week 11 | Competition | |
| 24 May  Week 12 | Start watching videos from Introduction to Data Science  Start sections:   * 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 | Pass P4 **Write A Data Science Blog post** Project |  |
| 21 June  Week 16 | Start watching videos from Software Engineering  Start sections:   * Software Engineering Practices P1 * Software Engineering Practices P2 |  |
| 28 June  Week 17 | Continue watching videos from Software Engineering  Complete sections:   * Introduction to Object-Oriented Programming * Web Development | Data Engineering Session |
| 5 July  Week 18 | Start watching videos from Data Engineering  Start sections:   * ETL Pipelines * NLP Pipelines * Machine Learning Pipelines   Pass P5 **Disaster Response Pipeline** Project |  |
| 12 July  Week 19 | Start watching videos from Experimental Design & Recommendations  Start sections:   * Intro to Experiment Design and Recommendation Engines * Concepts in Experiment Design |  |
| 19 July  Week 20 | Continue watching videos from Experimental Design & Recommendations  Complete sections:   * Statistical Consideration in Testing * Introduction to Recommendation Engines | Recommendations Engines Session |
| 26 July  Week 21 | Continue watching videos from Experimental Design & Recommendations  Complete sections:   * Matrix Factorization for Recommendations   Pass P6 **Recommendation Engines** Project |  |
| 2 August  Week 22 | Work on Capstone Project P7 |  |
| 9 August  Week 23 | Capstone Session |
| 16 August  Week 24 |  |