| AY  | 19-2  | MONDAY                          |      | TUESDAY  |           | WEDNESDAY  |                    | THURSDAY                           |           | FRIDAY  |         |
|---|-------|---------------------------------|------|--|-----------|--|--------------------|------------------------------------|-----------|---|---------|
| SIS   |       | 6-Jan-20                        | N/A  | 7-Jan-20   | N/A       | 8-Jan-20   | 1-1                | 9-Jan-20                           | 2-1       | 10-Jan-20   | 1-2     |
| alys  | 1     | No Class                        |      | No Class   |           | No Class   |                    | Course Introduction                |           |   |         |
| An  | •     | Reorgy Week                     |      | Reorgy Week  |           |  |                    | and Intro to Machine Learning      |           |   |         |
| ata<br>tior                                     |       | 12 X 20                         | 2.2  | 14.7. 20   | DT/A      | 15 X 20  | 1.2                | §2.1 of ISLR and §2.1-2.4 of W     |           | 15 I 20   | 1.1     |
| or D<br>liza                                    |       | 13-Jan-20 Intro to ML Continued | 2-2  | 14-Jan-20<br>No Class                              | N/A       | 15-Jan-20  | 1-3                | 16-Jan-20 Python for Data Analysis | 2-3       | 17-Jan-20   | 1-4     |
| n fo  | 2     | &Python for Data Analysis No    | umpy | Honorable Living Stand Down                        | Dav       |  |                    | Pandas                             | •         |   |         |
| - Python tor Data Analysis<br>and Visualization |       | ,                               |      |  |           |  |                    |                                    |           |   |         |
| -P.   |       | 20-Jan-20                       | N/A  | 21-Jan-20  | 2-4       | 22-Jan-20  | N/A                | 23-Jan-20                          | 1-5       | 24-Jan-20   | 2-5     |
| :К I  | 3     | No Class                        |      | Python for Data Analysis                           |           | No Class   |                    | No Class                           |           | Python for Data Visualizati                         | ion     |
| Block   |       | MLK Day                         |      | Pandas Continued                                   |           | Study Day  |                    |                                    |           | Matplotlib & Seaborn                                |         |
|   |       | 27-Jan-20                       | 1-6  | Exercise 1 28-Jan-20                               | 2-6       | 29-Jan-20  | 1-7                | 30-Jan-20                          | 2-7       | Exercise 2 31-Jan-20                                | 1-8     |
| <b>S</b>  |       | No Class                        | 1-0  | RegModels - K-NN Regress                           |           | No Class   | 1-7                | RegModels                          | 2-7       | No Class  | 1-0     |
| - Regression Models                             | 4     |                                 |      | §3.1 §3.7 of Wilmott                               |           |  |                    | K-NN Regressor                     |           |   |         |
| Mo  |       |                                 |      | Exercise 3   |           |  |                    | Lab                                |           |   |         |
| sion  |       | 3-Feb-20                        | 1-9  | 4-Feb-20   | 2-8       | 5-Feb-20   | 1-10               | 6-Feb-20                           | 2-9       | 7-Feb-20  | 1-11    |
| res   | 5     | No Class                        |      | RegModels  |           | No Class   |                    | RegModels                          |           | No Class  |         |
| Reg   |       |                                 |      | Linear Regression Ch. 3 of ISLR & Ch. 6 of Wilmott |           |  |                    | Linear Regression<br>Lab           |           |   |         |
| 2   |       | 10-Feb-20                       | 2-10 | 11-Feb-20  | 1-12      | 12-Feb-20  | N/A                | 13-Feb-20                          | 1-13      | 14-Feb-20   | 2-11    |
| Block   |       | RegModels - Ridge & Lasso Regr  |      | No Class   | 1 12      | No Class   | 11/12              | No Class                           | 1 10      | ClassModels - KNN Classif                           |         |
| B   | 6     | §3.1 of ISLR                    |      |  |           | Study Day  |                    |                                    |           | Ch. 3 of Wilmott and §2.2.3 o                       |         |
|   |       |                                 |      |  |           |  |                    |                                    |           | Lab   |         |
| S   |       | 17-Feb-20<br>No Class           | N/A  | 18-Feb-20<br>No Class                              | 1-14      | 19-Feb-20  | 2-12               | 20-Feb-20                          | 1-15      | 21-Feb-20   | 2-13    |
| Classification Models                           | 7     | No Class  President's Day       |      | No Class   |           | ClassModels - Logistic Regres<br>§4.3 of ISLR and §6.4 of Wiln |                    | No Class                           |           | Logistic Regression<br>§4.3 of ISLR and §6.4 of Wil | lmott   |
| M   |       | Troslaciii o Buj                |      |  |           | Mini-Project 1   |                    |                                    |           | Lab   |         |
| ıtior   |       | 24-Feb-20                       | 1-16 | 25-Feb-20  | 2-14      | 26-Feb-20  | N/A                | 27-Feb-20                          | 2-15      | 28-Feb-20   | 1-17    |
| ifica   | 8     | No Class                        |      | ClassModels - Naïve Bayes Clas                     | ssifier   | No Class   |                    | Application of Naïve Bayes M       |           | No Class  |         |
| lass  | Ť     |                                 |      | Ch. 5 of Wilmott                                   |           | Study Day  |                    | Intro to Natural Language Process  | ing (NLP) |   |         |
| 1 -   |       | 2-Mar-20                        | 1-18 | 3-Mar-20   | 2-16      | 4-Mar-20   | 1-19               | Quiz 1<br>5-Mar-20                 | 2-17      | 6-Mar-20  | 1-20    |
| Block 3   |       | No Class                        | 1-16 | NLP  | 2-10      | No Class   | 1-19               | Sentiment Analysis                 | 2-17      | No Class  | 1-20    |
| Blo   | 9     |                                 |      | Tokenization, Tagging, Chunl                       | cing      |  |                    | Text Analysis and Predicti         | on        |   |         |
|   |       |                                 |      | Mini-Project 2                                     |           |  |                    | Lab                                | •         |   |         |
| 50  | ¥     | 9-Mar-20                        | N/A  | 10-Mar-20  | N/A       | 11-Mar-20  | N/A                | 12-Mar-20                          | N/A       | 13-Mar-20   | N/A     |
| Spring  | Break | No Class<br>Spring Break        |      | No Class<br>Spring Break                           |           | No Class<br>Spring Break                                       |                    | No Class<br>Spring Break           |           | No Class<br>Spring Break                            |         |
| S   | B     | Spring Dreak                    |      | Spring Break                                       |           | Spring Break   |                    | Spring Break                       |           | Spring Break  |         |
|   |       | 16-Mar-20                       | 1-21 | 17-Mar-20  | 2-18      | 18-Mar-20  | N/A                | 19-Mar-20                          | 2-19      | 20-Mar-20   | 1-22    |
|   | 10    | No Class                        |      |  |           | No Class   |                    | Decision Trees                     |           | No Class  |         |
|   |       |                                 |      |  |           | Study Day  |                    | §8.1 ISLR and Ch. 9 of Wili        | nott      |   |         |
|   |       | 23-Mar-20                       | 1-23 | 24-Mar-20  | 2-20      | 25-Mar-20  | 1-24               | 26-Mar-20                          | 2-21      | 27-Mar-20   | 1-25    |
| ing   | 11    | No Class                        |      | Ensamble Models & Random F                         | orests    | No Class   |                    | Ensemble Models                    |           | No Class  |         |
| eari  | 11    |                                 |      | §8.2 of ISLR                                       |           |  | Voting Classifiers |                                    |           |   |         |
| d L   |       |                                 |      |  |           |  |                    |                                    |           |   |         |
| vise  |       | 30-Mar-20 Boosting Models       | 2-22 | 31-Mar-20<br>No Class                              | 1-26      | 1-Apr-20<br>No Class   | N/A                | 2-Apr-20<br>No Class               | 1-27      | 3-Apr-20  K-Means Clustering                        | 2-23    |
| ıper  | 12    | Adaptive Boosting               |      | No Class   |           | Study Day  |                    | No Class                           |           | § 10.3.1 of ISLR and Ch. 4 of V                     | Wilmott |
| - Unsupervised Learning                         |       | ,                               |      |  |           |  |                    |                                    |           | Quiz 2  |         |
| 4-1   |       | 6-Apr-20                        | 1-28 | 7-Apr-20   | 2-24      | 8-Apr-20   | N/A                | 9-Apr-20                           | 1-29      | 10-Apr-20   | 2-25    |
| Block 4   | 13    | No Class                        |      | Applications of K Means Clust                      | _         | No Class   |                    | No Class                           |           | Principal Component Analy                           |         |
| B   |       |                                 |      | Data Pre-processing & Image Segn                   | nentation | Study Day  |                    |                                    |           | § 10.2 of ISLR and § 2.5 of W                       | ılmott  |
|   |       | 13-Apr-20                       | 1-30 | 14-Apr-20  | 2-26      | 15-Apr-20  | 1-31               | 16-Apr-20                          | 2-27      | 17-Apr-20 Modified                                  | 1-32    |
| ng  | 1.4   | No Class                        |      | Neural Networks                                    | -         | No Class   |                    | Neural Networks                    |           | No Class  |         |
| arni  | 14    | Ch. 10 of Wilmott               |      |  |           |  |                    |                                    |           |   |         |
| : <b>Le</b>                                     |       |                                 |      |  |           |  |                    | Mini-Project 3                     |           |   |         |
| nent  |       | 20-Apr-20                       | 1-33 | 21-Apr-20  | 2-28      | 22-Apr-20  | N/A                | 23-Apr-20                          | 1-34      | 24-Apr-20   | 2-29    |
| ırcn  | 15    | No Class                        |      | Neural Networks                                    |           | No Class<br>Study Day  |                    | No Class                           |           | Neural Networks                                     |         |
| Reinforcment Learning                           |       |                                 |      | Quiz 3   |           | Study Day  |                    |                                    |           | Exercise 4  |         |
|   |       | 27-Apr-20                       | 1-35 | 28-Apr-20  | N/A       | 29-Apr-20  | 1-36               | 30-Apr-20                          | N/A       | 1-May-20  | 1-37    |
| an  | 16    | No Class                        |      | No Class   |           | No Class   |                    | No Class                           |           | No Class  |         |
| - ANNs and                                      |       |                                 |      | Study Day  |           |  |                    | Projects Day                       |           |   |         |
| - A   |       | 4-May-20                        | 1-38 | 5-May-20   | 2-30      | 6-May-20   | 1-39               | 7-May-20                           | N/A       | 8-May-20  | 1-40    |
| ck 5  |       | No Class                        | 1-56 | Review   | 2-30      | No Class   | 1-37               | No Class                           | IVA       | No Class  | 1-40    |
| Block 5   | 17    |                                 |      |  |           |  |                    | Study Day                          |           |   |         |
|   |       |                                 |      |  |           |  |                    |                                    |           |   |         |
|   |       | 11-May-20                       | N/A  | 12-May-20  | N/A       | 13-May-20  | N/A                | 14-May-20                          | N/A       | 15-May-20   | N/A     |
| TIBE  | 18    | No Class<br>TEE Week            |      | No Class<br>TEE Week                               |           | No Class<br>TEE Week   |                    | No Class<br>TEE Week               |           | No Class<br>TEE Week                                |         |
|   |       | 1 EE Week                       |      | TEE week   |           | TEE week   |                    | TEE week                           |           | TEE Week  |         |
|   |       |                                 |      |  |           |  |                    |                                    |           |   |         |
| Kl  | EY    | No Class                        |      | Lab  |           | Course-wide Graded Even  | t                  | Quiz                               |           | Assignment or Modified Sc                           | hed.    |