The instructor plan is provided in the README file. If you do not have a markdown viewer please use the included README.html for proper gif rendering. The slides are in the Slides directory.

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| Time - minutes | Topic | Instructor Do | Student Do | Learning Goal |
| 6:50 – 7:05 | Introduction | Question of the day, Pre-Class Temperature Check, TA takes attendance | Think of a response to a real world interview question, Vote in poll | Present the topics of the class and engage students to think about the material. |
| 7:05 – 7:25 | AWS Walkthrough | Have students pull data files from git. Create and ppload data files to s3 and help any students who have configuration issues. Create a jupyter notebook in SageMaker. | Once the data file has been pulled follow along with instructor and create s3 buckets for the data. Create a jupyter notebook. | Familiarize students with the AWS environment. |
| 7:25 – 7:40 | Present statistical Topics | Present the slides on Label Encoding, One-hot encoding, Imputation, RandomForest | Follow along with the slides. | Students will learn about label encoding, One-hot encoding, Imputation and Random Forests |
| 7:40 – 8:00 | Exploratory Analysis on mtcars | Instructor codes the provided analysis on mtcars and demonstrates the topics presented in the slides. | Students code with the instructor on their own jupyter notebook in SageMaker. | Immediate application of the topics presented. Gain insights on how an exploratory analysis on mtcars can be used on other datasets. |
| 8:00 – 8:30 | Breakout Room – students try creditDefault | Instructor and TA’s provide guidance | Following the instructions and starter script, students try their own EDA. | Students quickly apply the topics they just learned. The dataset is different and requires more preparation before a classifier can be trained on it. |
| 8:30 – 8:55 | Train model credit default | Instructor demonstrates handling missing values and trains a classifier on the creditDefault dataset. | Class discusses breakout room results and then codes along with the instructor. | Students learn that EDA is a must before training a classifier. Without EDA the classifier will likely be worse than a coin flip if it doesn’t throw an error. |
| 8:55 – 9:00 | Questions | Instructor clarifies points of confusion. | Students are encourage to try their model on the testing data set. | Closing |