**LINEAR VS. LOGISTIC REGRESSION WORKSHOP INSTRUCTIONS**

**STEP 1:** View attached presentation. Make sure you understand the following:

* Difference between Linear and Logistic Regression
* How p-values are used in Regression Modeling
* What r-squared represents and how it’s interpreted
* Difference between null and alternative hypotheses
* How to perform a Stepwise Regression Analysis

**STEP 2:** Download the following Linear and Logistic Regression Models:

* + [Linear Regression Sample](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Data%20Science%20Club/Workshops/RegressionWorkshop/LinearRegressionSample.ipynb)
    - [Sample Dataset](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Data%20Science%20Club/Workshops/RegressionWorkshop/car_listings2.csv)
    - [Sample Dataset Documentation](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Data%20Science%20Club/Workshops/RegressionWorkshop/car_listings_documentation.txt)
  + [Logistic Regression Sample](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Data%20Science%20Club/Workshops/RegressionWorkshop/LogisticRegressionSample.ipynb)

**STEP 3:** Download and complete the following challenges:

* **Linear Regression Challenge**
  + **Description:** Using the dataset provided below, create a Linear Regression model to predict the price of flight tickets. Make sure to get rid of any and all variables with a p-value greater than 0.05.
    - [Flight Price Dataset](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Data%20Science%20Club/Workshops/RegressionWorkshop/flight_price_prediction_dataset.csv)
    - [Flight Price Dataset Documentation](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Data%20Science%20Club/Workshops/RegressionWorkshop/flight_price_prediction_documentation.txt)
* **Logistic Regression Challenge**
  + **Description:** Using the dataset provided below, create a Logistic Regression model to predict whether or not a patient was diagnosed with diabetes. DO NOT remove any variables regardless of their p-value.
    - [Diabetes Dataset](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Data%20Science%20Club/Workshops/RegressionWorkshop/diabetes_prediction_dataset.csv)
    - [Diabetes Dataset Documentation](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Data%20Science%20Club/Workshops/RegressionWorkshop/diabetes_prediction_documentation.txt)