**DECISION TREE WORKSHOP INSTRUCTIONS**

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

* Difference between Classification and Prediction
* How Information Gain is Used by Decision Trees
* How Entropy is Applied by Decision Trees
* Advantages and Disadvantages of Decision Trees
* How to perform a Stepwise Regression Analysis

**STEP 2:** Follow the Links below to access the Google Collab Notebook and download the attached dataset:

* **Decision Tree Sample Problem**
  + [Decision Tree Example](https://colab.research.google.com/drive/1XxVC7j8kxrMmXKeRWijipgJra_rd-tqd#scrollTo=RrWtewsLVVak)
    - [Sample Dataset](https://d.docs.live.net/22e957f1453f5946/Documents/Career%20Development/Summer%202023%20Project/listings.csv)
      * **NOTE: Once you access the Google Collab notebook, you’ll need to import the CSV file into your Runtime Environment for the code to execute correctly.**

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

* **Decision Tree Challenge**
  + **Description:** Using the dataset provided below, create a Decision Tree to classify each row into an appropriate Body Type. ***If you do this challenge in Python, make sure to follow the Sample Problem with the Label Encoding and Data Preparation Tasks.***
    - [Decision Tree Challenge](https://colab.research.google.com/drive/1d53DvceqlYavVqFRGUVSQ8XP4ed91qoY#scrollTo=coUDVHP8eeZe)
    - [Cars Dataset](file:///C:\Users\Chase\Downloads\archive%20(4)\CARS_1.csv)