Module 5: Assignment 4 – Adjusted R Squared & F Statistics

Problem Statement:

You work in XYZ Corporation as a Machine Learning Engineer. After splitting the data into train and test sets, now the corporation wants you to analyze the multiple logistic regression model.

Tasks to be performed:

1. After splitting the data frame into train and test sets, build a simple linear model on top of the train set for the city_temperature data frame.
    a. For this model, take Country, Region, City, and AvgTemperature as the independent variable and Month as the dependent variable.
    b. Check the Adjusted R squared value and F statistics.
2. After splitting the data frame into train and test sets, build a simple linear model on top of the train set for the Placement_Data_Full_Class data frame.
    a. For this model, take degree_p, mba_p, and status as the independent variable and etest_p as dependent variable.
    b. Check the Adjusted R squared value and F statistics.
3. After splitting the data frame into train and test sets, build a simple linear model on top of the train set for the Pharmacovigilance_audit_Data data frame.
    a. For this model, take Issues, DrugId, and Gender as independent variable and Age as dependent variable.
    b. Check the Adjusted R squared value and F statistics