

Module 6: Assignment 4 – Null Deviance & Residual Deviance

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 train the multiple logistic regression model.

Tasks to be performed:

1. After splitting the data frame into train and test sets, build a multiple logistic model on top of the train set for the city_temperature data frame.
 - a. For this model, take AvgTemperature, Day, Month, and Year as the independent variable and Region as the dependent variable.
 - b. Now analyze the null deviance and residual deviance.
 2. After splitting the data frame into train and test sets, build a multiple logistic model on top of the train set for the Customer_Churn data frame.
 - a. For this model, take tenure, Streaming TV, Monthly Charges, and Total Charges as the independent variable and Churn as dependent variable.
 - b. After training, analyze the null deviance and residual deviance.
 3. After splitting the data frame into train and test sets, build a multiple logistic model on top of the train set for the Pharmacovigilance_audit_Data data frame.
 - a. For this model, take Gender, Age, and Patient_Id as independent variable and DrugId as dependent variable.
 - b. Now analyze the null deviance and residual deviance.
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