

Module 5: Assignment 12 – RSE & MRSE

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 linear 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 Residual Standard Error and Multiple R-Squared Error.
 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 Residual Standard Error and Multiple R-Squared Error.
 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 Residual Standard Error and Multiple R-Squared Error.
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