**Assignment: Insurance Charges Prediction Report**

1. Problem Statement:

Predict insurance charges based on age, sex, BMI, number of children and smoking status.

2. Dataset Overview:

Total rows & columns: [1338 rows x 6 columns]  
  
3. Preprocessing:

‘Sex’ and ‘Smoker’ columns

4. Model Development:

Multiple Linear Regression, SVM

5. Model Performance (R2 Score)

Multiple Linear Regression: 0.78947

SVM: -0.0884

Decision Tree: 0.74367

Random Forest: 0.84971

6. Finale Model Selection:

Random Forest has the highest percentage count in comparison to the rest of the models.