Polynomial Regression
A regression model that uses multiple variables for predicting the value of something.

The linear regression model is better because the trends shown in the graphs look linear, and have no curve.

MSE stands for mean squared error, and as it suggests, it is the average of the composite of error values squared.

Decision Tree Regression
Data that is categorical is the best data that should use decision tree regression

Visualize the dataframe and identify a root question to separate the dataframe. Then, use another model to determine the pattern of the selected node.

RMSE is just the definition of MSE, except it takes the MSE and square roots it. This offers more leeway in higher percentage errors, but it still maintains an accurate comparison of RMSE values. It can be used to evaluate a decision tree regression in comparing it to other standard linear regression models or polynomial regression models.