Sunil Sah

Project 3

The linear regression model was built to predict house sale prices using the "Lot Area" as the primary feature. After handling missing values, encoding categorical variables, and removing duplicates, the dataset was split into training and testing sets. The model achieved an **R-squared score** of approximately R2R^2R2, indicating the proportion of variance in house prices explained by the model. Additionally, the **Mean Absolute Error (MAE)** and **Mean Squared Error (MSE)** metrics assessed prediction accuracy, with lower values reflecting better performance. A scatter plot visualized the training and testing data, along with the regression line, highlighting the model's ability to predict prices effectively based on lot area. While the model's simplicity provides insights, incorporating additional features could improve predictive accuracy.