# Summary of Findings

This analysis explores what factors influence the price of a used car. The dataset includes car attributes like year, odometer reading, manufacturer, fuel type, transmission, and more.

## Key Findings

- The average car price in the dataset is around $18,857, with significant variations.

- Cars manufactured in recent years tend to have higher prices.

- Lower odometer readings correlate with higher prices, indicating consumer preference for less-used vehicles.

- Transmission type, fuel type, and manufacturer also impact pricing, as different brands and features carry different market values.

## Model Performance

A linear regression model was trained to predict car prices based on available attributes. The model achieved an R² score of 0.47, meaning it explains 47% of the variance in car prices.

## Next Steps

To improve prediction accuracy, more complex models like Random Forest or XGBoost can be used. Additionally, incorporating external market data could enhance results.

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https://github.com/yildizsal/Project-Module-11.git