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Insights and Predictions: Comprehensive Analysis of Used Bike Data:

1. Introduction:

This report delves into a thorough analysis aimed at extracting valuable insights and predictions from a dataset containing critical information about used bikes. Key fields encompassed in the dataset include Bike Name, Bike Price, City In, Model Year, and Kilometers Run. The primary objective is to contribute meaningful insights to decision-making within the used bike market.

2. Dataset Overview:

Bike Name: Brand and model name of the used bike.

Bike Price: Listed price of the used bike.

City In: City where the bike is listed for sale.

Model Year: Manufacturing year of the bike.

Kilometers Run: Distance the bike has been ridden, indicating its usage.

3. Objectives:

a. Price Prediction:

Intro and Background of the Problem:

Discuss the significance of predicting used bike prices and its impact on the market.

Data Collection:

Detail the sources and methods employed for collecting the dataset.

Data Preprocessing:

Outline steps taken to clean and prepare the dataset for analysis.

Modeling and Evaluation:

Explain the regression model used for price prediction, the features considered, and the evaluation metrics employed.

Results:

Present the model's performance, including accuracy, precision, and other relevant metrics.

Conclusions:

Summarize findings and highlight the model's efficacy in predicting used bike prices.



