3-Usecase 4



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So we defined data science as: It's the process of asking interesting questions, and then answering those questions using data.

For any **Data project** we will go through these steps:

- 1. Defining the Problem Statement
- 2. Collecting Data
- 3. Data Quality Checking and Remediation
- 4. Exploratory Data Analysis
- 5. Building Machine Learning Models
- 6. Model Evaluation
- 7. Communicating Results
- 8. Model Deployment
- 9. Model Performance Maintenance in Production

Usecase 4

Step 1: Defining the Problem Statement

We are eager to learn about the used cars market in Saudi Arabia, We would like to know:

- a. Which region in Saudi Arabia has the largest market for used cars?
- b. During the specified period, which car brand was the most listed for sale?
- c. Which features most significantly influence the price of a used car?
- d. What is the price range for used cars that are approximately four years old?
- e. Initiate your analysis of the used car market, and feel free to incorporate any other pertinent questions that may arise.

Step 2: Collecting Data

Used cars data is collected from scrapping online website called Sayarah for selling cars in 2023 and posted in kaggle

Step 3: Data Quality Checking and Remediation

To do in the notebook

Step 4: Exploratory Data Analysis

To do in the notebook

Step 5: Building Machine Learning Models

Not applicable

Step 6: Model Evaluation

Not applicable

Step 7: Communicating Results

To do in the notebook

Step 8: Model Deployment

Not applicable

Step 9 : Model Performance Maintenance in Production

Not applicable