

Usecase 11

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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
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Step 1: Defining the Problem Statement

We aim to develop an advanced NLP model to accurately analyze and interpret sentiment in Arabic reviews across sectors like hotels, books, movies, products, and airlines, enhancing business insights and customer satisfaction.

Step 2: Collecting Data

Arabic reviews are collected and posted in [kaggle](#)

Step 3: Data Quality Checking and Remediation

Done in the notebook

Step 4: Exploratory Data Analysis

Done in the notebook

Step 5: Building Machine Learning Models

To do in the notebook.

Step 6: Model Evaluation

To do in the notebook

Step 7: Communicating Results

To do in the notebook

Step 8: Model Deployment

Not applicable

Step 9 : Model Performance Maintenance in Production

Not applicable