

## 4-Usecase 5 (Lab)

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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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### Usecase 5

## Step 1: Defining the Problem Statement

We are interested in understanding the employment landscape within Saudi Arabia. We would like to know:

1. What proportion of job postings is attributed to each region within the kingdom?
2. Is there a gender preference indicated in the job postings?
3. What is the expected salary range for fresh graduates?
4. Are job opportunities predominantly targeted at individuals with experience, or is there room for fresh graduates as well?
5. Bounce: Please begin your analysis, and don't hesitate to consider additional relevant questions.

## Step 2: Collecting Data

[Job postings](#) in Saudi Arabia from Jadara was collected for this lab

## 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