Usecase 2 (Lab)

By: eng. Esraa Madhi

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 2

Step 1: Defining the Problem Statement

We are eager to learn about the World Happiness. We would like to know:

- 1. What countries or regions rank the highest in overall happiness and each of the six factors contributing to happiness?
- 2. How did country ranks or scores change between the 2015 and 2016 as well as the 2016 and 2017 reports?
- 3. Did any country experience a significant increase or decrease in happiness?
- 4. Bounce: Please begin your analysis, and don't hesitate to consider additional relevant questions.

Step 2: Collecting Data

World Happiness Reports was collected for 5 years starting from 2015 until 2019

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