

6-Usecase 2 (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

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