**Data Science Methodology:**

methodology that can be used within data science, to ensure that the data used in problem solving is relevant and properly manipulated to address the question at hand.

**There are five modules:**

1. Problem to Approach

2. Requirements to Collection

3. Understanding to Preparation

4. Modeling to Evaluation

5. Deployment to feedback

each module going through two stages of the methodology:

Module 1: From Problem to Approach and from Requirements to Collection

* Business Understanding *(what is the problem that you are trying to solve?)*
* Analytic Approach *(How can you use data to answer the question?)*
* Data Requirements *(What are data requirements?)*
* Data Collection *(What occurs during data collection?)*

Module 2: From Understanding to Preparation and from Modeling to Evaluation

* Data Understanding *(What does it mean to prepare or clean data?)*
* Data Preparation *(What are ways in which data is prepared?)*
* Modeling *(In which way can the data be visualized to get to the answer that is required?)*
* Evaluation *(Does the model used really answer the initial question or does it need to be adjusted?)*

Module 3: From Deployment to Feedback

* Deployment *(Are stakeholders familiar with the new tool?)*
* Feedback *(Problem solved? Question answered?)*

