Looking back at ‘What is Data Science?

- 10 min: Look at your result for portfolio assignment 1 ‘What is Data Science?’. Is there anything you would like to change? If so, then create a second version and add it to your portfolio.

- 30 min: Look back at all the portfolio assignments you have done. Create a short report in which you:

Use the portfolio assignments as examples to explain what Data Science is.

Optional: Use the portfolio assignments as examples to explain the relation between Data Science and BI

Optional: Use the portfolio assignments as examples to explain the relation between Data Science and AI

What is data science? In simple words, Data Science is the future, it's about predicting data, analyzing data, seeing what it means and what it can be done. In Assignments 3 to 6 we learn how to analyze our datasets in simple ways, like: How many penguins are in the given islands, or what are the Locations where the life expectancy is at its highest or at its lowest. We learn how to create another meaning to the datasets.

In Assignments 7 we discover how to calculate the frequency of data, how the distribution works, now we can realize that many rows have common attributes and can be classified in a certain group.

With those assignments we now can move from a visualization in a simple boring table to visualizing data in plots.

In Assignments 8 we can now calculate the confidence interval of data, we can now calculate what the interval in a certain attributes, and defining the confidence level, we can say with how much certainty that interval is.

Assignment 9 & 10 teach us how to calculate the correlation between attributes. We can now see in a scatter plot how attributes are related with each other and how strong they are correlated.

With Assignments 11 - 14 we now can calculate two attributes Categorical or Numerical, how they interact with each other. An example: What type of Pokémon has the most points in Attack, or Defense etc. We can also calculate how strongly correlated they are, and the ratios between the categories.

Ans finally in Assignments 15 - 19 we learn one of the most interesting aspects from Data Science: Predicting data. We learn how to make a decision tree and regressive decision tree to analyze the attribute that might have influence in a dataset and predict the values of the dataset.