

- 1- Based on the videos and the reading material, how would you define a data scientist and data science?

Data Scientist: they are a new generation of analytical experts who have the technical skills to solve complex problems - and the curiosity to explore which problems need to be solved. They are part mathematicians, part computer scientists, and part trend-watchers.

Data Science: Data science is an interdisciplinary area focusing on the study and analysis of data (structured, semi-structured and unstructured) from different areas such as economic, social, and medical. This analysis aims to extract knowledge, detect patterns, and/or obtain insights for possible decision-making.

- 2- As discussed in the videos and the reading material, data science can be applied to problems across different industries. What industry are you passionate about and would like to pursue a data science career in?

I have a degree in Industrial Engineering and I work in the area of manufacturing processes, which if applied to data science would help a lot to improve processes, such as reducing costs and rework. But lately, I have been very interested in the art of Business Analysis.

- 3- Based on the videos and the reading material, what are the **ten** main components of a report that would be delivered at the end of a data science project?

1 cover page: include the title of the report, names of authors, affiliations, contacts, name of the institutional publisher, and the date of publication.

2 A table of contents (ToC) for longer document or executive summary for a short document

3 introductory section

4 methodology section

5 results section

6 discussion section

7 conclusion section

8 references section

9 acknowledgement section

10 appendices section