In this Assignment, you will demonstrate your understanding of the videos and the readings by answering open-ended questions, defining data science and data scientist, and describing the different sections comprising a final deliverable of a data science project. Please note that this assignment is worth 10% of your final grade.

Answer

I tend to use data and information interchangeably, thinking of it having the same meaning, but realized during my study of the course that these two are different. Data are names given to basic facts and entities such as employee name and prices, but when data are interpreted, processed, structured and organized to determine its true meaning and to make them useful they become information. Data science is the process of analyze data using scientific methods, processes, algorithms and systems to extract and understand knowledge in a data.

A data scientist is a person who is able to identify relevant questions, collect data from a multiple of different data sources, organize the information, translate results into solutions and communicate their finding in a way that positively affects a business decision. A data scientist is one that is curious, judgmental and is able to tell a story based on the nature of the problem using analysis to build a narrative.

The final deliverable of a project outlines the cope of a project, for a detailed, comprehensive report the data collected should be outlined for a person or audience to be able to get a better understanding, this format includes cover page, table of content, executive summary, detailed contents, acknowledgement, references and appendices.

* **Cover page** where you have the title, name of the author, name of the publisher, date of publication including the month and year, their affiliation and contact.
* **Table of content**; this is where you get a visual representation of the information reported. It Includes the heading, the list of topics, tables, graph, charts and figures showing what is included in the report usually 5 or more pages in length.
* **Executive summary**: provides an overview of the report, its purpose is to present the key points of the report, helps the audience to understand the main point of the report and the evidence presented.
* **Detailed content;** Includes the introductory section, methodology sections, analysis section and the result section and the conclusion section; where the introductory section, introduce the audience to the report, and provide a new reader insight to the topic of the report. The literature review usually is brief with citation, methodology section introduces the research method, where the collected data is explained into detail, the result section is where your present illustration, and test hypothesis of the report. Analysis section is where we analyze the result. The discussion section is where you rely on the power of narrative to enable numbers to communicate the thesis to your readers. The result section is where we present our findings or result of the analysis. Conclusion section summarizes the report and provide future inferences that have been found and the impact of those finding
* **Reference and acknowledge section**; support the report, they are very essential in a report.
* **Appendices** includes the essential extra materials, such as detailed technical drawing or tables that support the reading. The appendices section is optional.