

Final assignment - What is Data Science?

Hello colleagues, my name is Irwan, I'm now working as Consultant in one of Consulting Firms, focusing more on the Financial Industry. I have completed my studies in Electrical Engineering and Computer Science and a master's degree in Computer Engineering. The past years I have been working in a Cloud implementation in helping our Clients to embark to their Digital Transformation journey, so my knowledge in the field of data science is quite limited.

I am doing this course since I learnt that Data is the new oil, and knowledge about how to extract Data to get meaningful actionable insights, especially Data Science has a great future and I am also interested in learning about Python and Machine Learning.

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

After reviewing the materials I consider that data science is an interdisciplinary field that involves scientific methods, processes and systems to extract knowledge or a better understanding of data in its different forms, whether structured or unstructured, which is a continuation of some fields of analysis of data such as statistics, data mining, machine learning and predictive analytics.

Additionally, I consider that a data scientist is a new profession that today is considered key in the world of technologies. It is a person trained in mathematical sciences and statistics that dominates programming and its different languages, computer science and analytics.

The data science professional must also have the capacity and knowledge to communicate their findings as they have them, not only in the area of technology but also in the business sector. You must master the technology and databases to modify and improve the orientation of the business of the company for which you work.

- ***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?***

There are different applications for this field, but I would be interested in applying it in the financial industry. For example, you can use data science and machine learning to predict the future value of a certain currency. Or you can also program algorithms to automatically calculating credit scoring of the customers, which will help to expedite the credit approval process for the customers respectively.

- ***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?***

There are 10 main components of a report that would be delivered at the end of a Data Science project, as follows:

1. Cover page
2. Table of contents
3. Introduction
4. Methodology
5. Results
6. Conclusions
7. Reference
8. Discussion
9. Acknowledgement
10. Appendices