Defining Data Science and Data Scientist

Submitted on January 3, 2022

PROMPT

Based on the videos and the reading material, how would you define a data scientist and data science? **(3 marks)**

A data scientist is a professional responsible for collecting, analyzing and interpreting extremely large amounts of data. The data scientist role is an offshoot of several traditional technical roles, including mathematician, scientist, statistician and computer professional. A data scientist, based on my current understanding, is the person who connects the dots between the business world and the data world. Similarly, data science is the craft that a data scientist utilizes to make this happen. Data science and machine learning provides the basis for business growth, cost and risk reduction and even new business model creation. Built for data scientists by data scientists, Now you can create value faster using the best of open source and IBM together. Data Science is a detailed study of the flow of information from the colossal amounts of data present in an organization's repository. It involves obtaining meaningful insights from raw and unstructured data which is processed through analytical, programming, and business skills.

RUBRIC

According to the reading material, a data scientist is someone who finds solutions to problems by analyzing data using appropriate tools and then tells stories to communicate their findings to the relevant stakeholders. Data science is defined as what data scientists do. Is the student's definition close to what is defined in the course material?

TR

○ 1 point
Poor. The student provided a non-coherent definition of data science and data scientist. The student did not mention anything about **using tools to find solutions to problems** and **communicating their findings through story-telling**.

◉ **2 points**
Good. The student provided definitions close to the ones discussed in the course material but the definitions are still incomplete. For example, the student forgot to mention that in addition to using tools to find solutions to problems, a data scientist also communicates their findings through story-telling. Or, the student forgot to mention

that a data scientist, in addition to communicating their findings to the relevant stakeholders, they use tools to find solutions to problems.

○ 3 points   `MK`
Excellent. The student provided a complete definition of a data scientist. The student explicitly stated that a data scientist **uses data to find solutions to problems** and **tells stories to communicate their findings**.

PROMPT

As discussed in the videos and the reading material, data science can be applied to problems across different industries. Give a brief explanation describing what industry you are passionate about and would like to pursue a data science career in? **(2 marks)**

My dream is marketing-like data-driven approach in IT-recruitment and transparent process of analysis of digital-marketing to hiring efficiency. I want to make a powerful data scientist.

RUBRIC

Has the student shared what industry they are passionate about?

○ 0 points
No, the student did not supply what industry they were passionate about

○ 1 point
Yes, but the student did not offer any explanation on why they were passionate about the industry.

◉ **2 points**
Yes and the student also gave an explanation on why they were passionate about the industry.   `TR` `MK`

PROMPT

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? **(5 marks)**

1.Discussion section 2.Conclusion 3.References 4.Appendices 5.Cover page 6. Table of content 7.Introductory section 8.Literature review 9. Methodology section 10. Result section

According to the course material, a final deliverable in the form of a report, has the following 10 main components:

1. Cover page

2. Table of contents

3. Executive Summary

4. Introductory section

5. Methodology section

6. Results section

7. Discussion section

8. Conclusion section

9. References

10. Acknowledgment

○ 2 points
Incomplete answer. Not all the ten components were listed.

◉ **5 points**
Complete answer. The student listed all ten components of a data science report.