Reading Assignment – Be Data Literate: Ch 1 and Ch 2

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**Objective:** Evaluate student understanding and critical thinking skills by answering guide questions based on a book chapter.

**Instructions:** Read the assigned book chapter thoroughly and answer the following guide questions. Be sure to provide specific examples from the text to support your answers.

**Title:** Be Data Literate by Jordan Morrow

**Chapter/s:** Chapter 1 and 2

**Guide Questions:**

1. Briefly summarize the main ideas presented in the chapter. What are the key points the author is trying to convey?

In summary of the key points that the author is trying to convey. In the first chapter it focused more on introducing the concept of data literacy as well as the benefits of being data literate, and in the second chapter it tackles the overview of the four different level of analytics.

1. Describe the author's writing style. Is it clear, engaging, and easy to understand? Provide examples to support your opinion.

The author’s writing style is very engaging and easy to understand as he provides real-world examples in order to make that the reader can relate to the specific scenarios that the author illustrated.

1. Identify any new terms or concepts introduced in the chapter. Define them and explain their significance to the chapter's main ideas.

There are a couple of terms or concepts that I found myself curious about:

1. Internet of Things (IoT): is the network of physical objects that are embedded with sensors, software, and network connectivity to collect and exchange data. This term plays a huge role in the history of our history as this managed to allow data to be streamed to different places.
2. Prescriptive Analysis: A type of data analytics that uses historical and current data to predict future outcomes. This concept is significant to the chapter’s main idea due to it being another type of data analysis that is currently being used by different companies in the world.
3. Discuss the evidence or examples provided by the author to support their arguments. Are they convincing and relevant? Explain your reasoning.

The reader can relate to the various scenarios the author provides, and some of these scenarios are based on how various companies are using various analysis strategies to further improve their overall sales and efficiency, making the evidence the author provided truly convincing and relevant.

1. Were there any areas in the chapter that you found confusing or difficult to understand? If so, describe those areas and explain why they were challenging.

Yes, I have one area in the chapter that I found confusing. One of those are the part where the author describes the different types of analysis which for me is a bit difficult in trying to understand as I currently have no background in the said field, there are terms that are unfamiliar with me.

1. Identify any potential biases or assumptions the author may have made in presenting their ideas. How might these biases or assumptions affect the credibility of the chapter?

The potential biases that the author may have made in presenting their ideas are:

1. Bias towards technology: The author focused more on the use of technology for data literacy. This can lead to assumptions that data literacy can be achieved using technology.
2. Bias towards quantitative data: The author focused heavily on the use of quantitative data. This can lead to some assumptions that data literacy can be only about understanding numbers.
3. Compare the ideas presented in this chapter to those in previous chapters or other materials you have read on the topic. Are there any similarities or differences? Explain your observations.

Here is a couple of similarities and differences that I have observed in the read chapters:

**Similarities**

1. The importance of data literacy: As chapter 1 focuses more on the basics data literacy while chapter 2 focuses on the four levels analytics.

**Differences**

1. The use of examples: As chapter 1 uses a few examples to describe its points, while chapter 2 uses a lot more of examples to illustrate the different levels of analytics.
2. What questions or concerns do you have after reading this chapter? Are there any topics you would like to explore further?

There are some questions that I have after reading the chapter:

1. How can this be applied in machine learning models?
2. Is it possible to utilize data literacy to physical objects?
3. Is it possible to simplify data literacy to lower the possible skill gap?
4. How do the ideas presented in the chapter relate to your own experiences, beliefs, or opinions? Provide examples to illustrate the connections.
5. In chapter 1, the author discusses the importance of data literacy in the modern world. I agree with this opinion. In my own work as a mobile app engineer, I should be able to understand certain analytics which provides me to capability to further improve the application.
6. In chapter 2, the author discusses the four levels of analytics: descriptive, diagnostic, predictive, and prescriptive. He argues that each level of analytics has its own unique purpose and that businesses should use a combination of all four levels to make informed decisions. I agree with this assessment. As this can be utilized to greatly improve the systems created especially for mobile application development.
7. Summarize your overall impression of the chapter. Do you agree or disagree with the author's main arguments? Why or why not?

Overall, I thought the chapter was really well written and helpful. The author does a fantastic job of laying out the many levels of analytics and the significance of data literacy. I also value the way he uses examples to support his arguments.

The main points made by the author are true. Anyone who wants to succeed in the current world must be data literate, in my opinion. Data is present everywhere, thus being able to comprehend and utilize it efficiently is becoming more and more crucial.

Prepared by: **Bob Mathew D. Sunga**