



COS80023 Big Data

Pass Task 1: Opportunities and Challenges

Overview

Consult this week's lecture and possibly other suggested materials to discuss the opportunities and challenges of big data.

Purpose

Demonstrate awareness of the opportunities Big Data has to offer and the challenges practitioners face.

Task

Answer the questions below.

Time

This task should be completed in your first tutorial or the week after and submitted to Canvas for feedback. It should be discussed and signed off in tutorial 1 or 2.

This task should take no more than 2 hours to complete.

Resources

- Lecture slides (in Canvas)
- Suggested reading :
 - <https://www.iotforall.com/what-is-iot-simple-explanation/>
 - <https://datafloq.com/read/understanding-sources-big-data-infographic/338>
 - <https://www.forbes.com/sites/paulpotratz/2018/08/08/big-data-what-it-means-how-to-grow-your-business-with-it/#23b35ccd791a>
- Any other online material
- genAI – Allowed for research. Must be able to explain

Feedback

Discuss your answers with the tutorial instructor.

Next

Do the Credit tasks or get started on module 2.

Pass Task 1 — Submission Details and Assessment Criteria

Write down the questions and answers in a text, Latex or Word document and upload to Canvas as a PDF. Your tutor will give online feedback and discuss the tasks with you in the lab when they are complete.

1. What makes big data so interesting to organisations? Give at least three reasons and explain with the help of one or more examples. Use 10 – 20 sentences.
2. Finding useful information in big data has its challenges. Name 5 challenges and explain how organisations can address them. Use 10 – 20 sentences.
3. Explain the concepts of IoT and the connection between IoT and Big Data. Use no more than 10 sentences.
4. Explain how social media contributes to the opportunities of Big Data. Use no more than 10 sentences.