

Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 66%. We keep your highest score.

Next item →

You increased your skill score!

Data Science

Your score: 41 (+6) Conversant

Keep going! At a conversant level, you have familiarity with the vocabulary and are able to pass easy content.



1. You are a new data scientist. You have been tasked with coming up with a solution for reducing traffic congestion and improving transportation efficiency. How would you go about it?

1 / 1 point

- ☐ Suggest implementation of surge charges for ride-sharing services.
- ☐ Suggest creating more parking lots and garages in the city
- ☒ Gather and analyze streetcar operations data and identify congested routes
- ☐ Suggest implementation of strict speed limits and traffic fines

✔ Correct

Correct! By doing this you would be using data science to reduce traffic congestion and improve transportation efficiency in a city.

2. Imagine you take a taxi ride where the initial fare is a fixed amount, and the fare increases based on both the distance traveled and the time spent in traffic. Which concept in data analysis does this scenario closely resemble?

1 / 1 point

- ☐ Unstructured data extraction
- ☒ Regression analysis
- ☐ Data visualization with R
- ☐ Nearest neighbor algorithm

✔ Correct

Correct! The scenario of a taxi ride with a fixed base fare and additional charges based on distance and time is analogous to regression analysis, where a constant and relationships between variables are determined.

3. You have to pick a file format which meets the following conditions: a) is self-descriptive for internet-based information sharing b) readable by both humans and machines c) Facilitates easy data sharing between different systems. Which file format would you pick?

1 / 1 point

- ☐ Microsoft Excel Open XML Spreadsheet (XLSX)
- ☐ Delimited text file formats (CSV/TSV)
- ☒ Extensible Markup Language (XML)
- ☐ JavaScript Object Notation (JSON)

✔ Correct

Correct! XML is a markup language with defined rules for encoding data, making it self-descriptive, readable by both humans and machines, and suitable for data sharing between diverse systems.