Your grade: 100%

Next item $\, o \,$

Your latest: 100% • Your highest: 100% • To pass you need at least 66%. We keep your highest score. 1. You are a new data scientist. You have been tasked with coming up with a solution for reducing traffic 1/1 point congestion and improving transportation efficiency. How would you go about it? Suggest implementation of surge charges for ride-sharing services. Suggest implementation of strict speed limits and traffic fines Suggest creating more parking lots and garages in the city Gather and analyze streetcar operations data and identify congested routes **⊘** Correct Correct! By doing this you would be using data science to reduce traffic congestion and improve transportation efficiency in a city. Imagine you take a taxi ride where the initial fare is a fixed amount, and the fare increases based on both the 1/1 point distance traveled and the time spent in traffic. Which concept in data analysis does this scenario closely resemble? 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 1/1 point information sharing b) readable by both humans and machines c) Facilitates easy data sharing between different systems. Which file format would you pick? 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.