Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 70%. We keep your highest score.

Next item \Rightarrow

1.	Which is the syntax code to split the data into 60% training data and 40% testing data?	1/1 point
	(a) training_data, testing_data = data.randomSplit([0.6, 0.4])	
	training_data, testing_data = data.randomSplit([0.4, 0.6])	
	testing_data, training_data = data.randomSplit([40, 60])	
	testing_data, training_data = data.randomSplit([0.6, 0.4])	
	⊙ Correct Correct! This is the correct syntax to split the data into 60% training data and 40% testing data.	
2.	What does a VectorAssembler do?	1/1 point
	It combines a bunch of columns as a single vector column.	
	It combines individual data elements into a row.	
	O It combines two DataFrames into one.	
	O It combines the individual data elements into a column.	
	Correct Correct! A VectorAssembler is a transformer that combines the values of the selected feature columns into a single vector.	
3.	What is the primary purpose of Spark's in-memory processing capability?	1/1 point
	To reduce disk-based I/O costs	
	To enable real-time data stream processing	
	To improve data ingestion performance To support complex data transformation tasks	
	Correct Correct! Spark's in-memory processing capability helps reduce the high I/O costs associated with traditional disk-based processing systems.	
4.	What is the role of data engineers in Spark cluster monitoring?	1/1 point
٠.		1/1 point
	To ensure the efficient running and health of the Spark cluster To troubleshoot issues related to data ingestion pipelines	
	To optimize code and data structures for better performance	
	O To analyze and visualize data processed by Spark	
	✓ Correct	
	Correct! Data engineers play a crucial role in monitoring the Spark cluster to ensure it is running efficiently, detecting, and resolving any issues that may arise.	
5.	Your goal is to predict the height of a child, given the age and the weight. Which of the following algorithms will help you achieve that?	1/1 point
	Linear regression	
	○ K-means	
	O Logistic regression	
	○ RandomSplit	
	Correct Correct! The linear regression algorithm helps to create a model that can be used to predict a numerical value.	
6.	Which is the correct statement for a linear regression problem?	1/1 point
0.	There will be 1 label column, which is non-numeric and multiple numeric feature columns.	, .,
	There will be 1 label column, which is numeric and multiple numeric feature columns.	
	There will be 1 label column, which is text and multiple numeric feature columns.	
	There will be 1 label column, which is non-numeric and multiple non-numeric feature columns.	
	○ Correct Correct! There will be 1 label column, which is numeric and multiple numeric feature columns.	

7.	Which is the correct syntax to create a Spark session with application name "Test App"?	1/1 point
	spark = SparkSession.builder.appname("Test App").createSession()	
	spark = SparkSession.builder.appName("Test App").getOrCreate()	
	spark = SparkSession.builder.appname("Test App").getOrCreate	
	$\bigcirc \ \ spark = Sparksession.builder.appName("Test App").getOrCreateSession()$	
	○ Correct Correct! The correct syntax is spark = SparkSession.builder.appName("Test App").getOrCreate().	
8.	Which statement best defines Clustering using Spark ML?	1/1 point
	O It discovers patterns and structures based on their randomness.	
	It relies on predefined labels or target variables.	
	It is the process of grouping similar data points together into clusters.	
	It is a supervised learning technique.	
	 Correct Correct! It is the process of grouping similar data points together into clusters based on their intrinsic characteristics or patterns. 	
9.	Which is the correct syntax to display the columns "height" and "weight" from the dataframe named "health"? health.show(["height","weight"]) health.show("height","weight")	1/1point
	health.selectcolumns("height","weight").show()	
	health.select(["height","weight"]).show()	
	⊙ Correct !	
10.	Which statement best defines GraphFrames?	1/1 point
	 GraphFrames is an integral part of the Spark installation and need not be downloaded as a separate package. 	
	GraphFrames enables Spark to perform graph processing, run computations, and analyze standard graphs.	
	OraphFrames does not require setting a directory for checkpoints.	
	O GraphFrames does not contain any built-in algorithms; you can download them as a separate package as per your requirements.	
	Correct Correct! GraphFrames is an extension to Apache Spark that enables Spark to perform graph processing, run computations, and analyze standard graphs.	