## Your grade: 80%

Your latest: **80%** • Your highest: **80%** • To pass you need at least 70%. We keep your highest score.

Next item  $\, o \,$ 

1.	How does generative AI help to correct inconsistencies and missing values?	1/1 point
	By augmenting data	
	O By anonymizing data	
	O By synthetic data generation	
	O By visualizing data	
	<ul> <li>Correct</li> <li>Correct! Data augmentation can impute missing values, correct inconsistencies, and augment existing data for more robust analysis.</li> </ul>	
2.	How does generative AI address the challenge of limited data availability for testing, development, and model training?  Synthetic data generation	1/1 point
	O Data exploration	
	O Data augmentation	
	Automation of repetitive tasks	
	Correct Correct! Synthetic data generation addresses the challenge of limited data availability for testing, development, and model training, where real data may be sensitive or restricted.	
3.	Which tool automates infrastructure deployment, using generative AI to craft and optimize cloud resource configurations?	1/1 point
	O dbt	
	Terraform	
	O Apache Airflow	
	○ Kubernetes	
	<ul> <li>Correct</li> <li>Correct! Terraform automates infrastructure deployment, using generative AI to craft and optimize cloud resource configurations.</li> </ul>	
4.	Which tool provides versioned data storage and lineage for data science workflows?	1/1 point
	○ Snowflake's Snowpark	
	Pachyderm	
	○ Great Expectations	

Correct Correct Pschyderm provides versioned data storage and lineage for data science workflows. With generative AI, it's possible to auto-adjust data processing pipelines, ensuring they adapt to data changes seamlessly.  5. Which tool enables real-time data pipeline management?    RuddorStack		○ StreamSets	
RudderStack Apache Airflow Prefect Fivetran  Incorrect. Please review the Generative AI Tools for Data Engineering reading.  Incorrect. Please review the Generative AI and discriminative models? Generative AI models separate data points into classes, while discriminative models focus on the distribution of data to generate new instances. Generative AI models generate new data instances, while discriminative models predict a label for given inputs. Generative AI models generate new data instances, while discriminative models predict a label for given inputs. Generative AI models separate data points into classes, while discriminative models generate data that has never been seen before. Generative AI models separate data points into classes, while discriminative models generate data that resemble training data.  Correct Correct Generative models focus on the distribution of data to generate new instances, unlike discriminative models, which predict a label for given inputs.  This take includes descriminative models focus on the distribution of data to generate new instances, unlike discriminative models, which predict a label for given inputs.  1/1 point for correct Correct Generative AI to automate data preparation tasks like cleaning data, handling missing values, and so on? Databricks AutoMI. Tonic.al SyntheticGuru DataRobot Correct Correct DataRobot leverages AI to automate various data preparation tasks. This task includes cleaning data, handling missing values, and feature engineering, essential steps in the data engineering pipeline.  Nich generative AI model can be adapted to understand and generate the structure of database schemas?  1/1 point CNN		Correct! Pachyderm provides versioned data storage and lineage for data science workflows. With generative AI,	
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	8.		1/1 point
		○ CNN ○ TensorFlow	

	O PyTorch	
	Transformer	
	Correct Correct! Given their success in understanding sequence and structure in natural language processing (NLP), transformer models can be adapted to understand and generate the structure of database schemas.	
9.	Which generative AI model did Netflix use to analyze historical streaming data patterns and generate optimized database schema designs?	
	O Pytorch	
	○ Staq	
	GANS	
	○ TensorFlow	
	<ul> <li>Correct</li> <li>Correct! Netflix leveraged generative adversarial networks (GANs) to analyze historical streaming data patterns and generate optimized database schema designs.</li> </ul>	
10.	Which AI-powered tool offers an "Auto Schema" feature and analyzes data types, relationships, and patterns, offering a solid starting point for your data pipelines?	
	Schemawriter	
	O Pytorch	
	○ Staq	
	○ StitchData	