Your grade: 80%

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

Next item →

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1. How does generative AI help to correct inconsistencies and missing values?   **1 / 1 point**

   ◉ By augmenting data

   ○ By anonymizing data

   ○ By synthetic data generation

   ○ By visualizing data

   > ⊘ **Correct**
   > Correct! Data augmentation can impute missing values, correct inconsistencies, and augment existing data for more robust analysis.

2. How does generative AI address the challenge of limited data availability for testing, development, and model training?   **1 / 1 point**

   ◉ Synthetic data generation

   ○ Data exploration

   ○ 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**

   ○ dbt

   ◉ Terraform

   ○ Apache Airflow

   ○ Kubernetes

   > ⊘ **Correct**
   > Correct! Terraform automates infrastructure deployment, using generative AI to craft and optimize cloud resource configurations.

4. Which tool provides versioned data storage and lineage for data science workflows?   **1 / 1 point**

   ○ Snowflake's Snowpark

   ◉ Pachyderm

   ○ Great Expectations

○ StreamSets

5. Which tool enables real-time data pipeline management?   0 / 1 point

○ RudderStack

○ Apache Airflow

◉ Prefect

○ Fivetran

6. What is the difference between generative AI and discriminative models?   1 / 1 point

○ 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 predict a label for given inputs, unlike discriminative models that create data that has never been seen before.

○ Generative AI models separate data points into classes, while discriminative models generate data that resemble training data.

7. Which tool leverages generative AI to automate data preparation tasks like cleaning data, handling missing values, and so on?   1 / 1 point

○ Databricks AutoML

○ Tonic.ai

○ SyntheticGuru

◉ DataRobot

8. Which generative AI model can be adapted to understand and generate the structure of database schemas?   1 / 1 point

○ CNN

○ TensorFlow

○ 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?

1 / 1 point

○ Pytorch

○ Staq

◉ GANs

○ TensorFlow

> ✓ **Correct**
> Correct! Netflix leveraged generative adversarial networks (GANs) to analyze historical streaming data patterns and generate optimized database schema designs.

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?

0 / 1 point

◉ Schemawriter

○ Pytorch

○ Staq

○ StitchData

> ⊗ **Incorrect**
> Incorrect. Please review the Automating Schema Design with Generative AI video.