Module 1 Summary: Data Science and Generative AI

Congratulations! You have completed this module. At this point, you know that:

- The four common AI models are generative adversarial networks (GANs), variational autoencoders (VAEs), autoregressive, and flow-based models.
- While GANs are great at data augmentation, VAEs are good at anomaly detection, data compression, collaborative filtering, and style transfer.
- Autoregressive models are good at text generation, speech synthesis, time series forecasting, and machine translation, and flow-based models are suitable for image and data generation and density estimation.
- Generative AI can tackle complex problems across various industries.
- Generative AI models are instrumental in tackling several data preparation and querying challenges, such as imputation of missing values, detecting outliers, reducing "noise," and translating natural language queries into equivalent SQL statements.

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