What is Data Engineering

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The field of Data Engineering involves:

Collecting source data	Processing data	Storing data	Making data available to users securely

Extracting, integrating, and organizing data from disparate sources

- Data acquisition from multiple sources
- Data architecture for storing source data

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Cleaning, transforming, and preparing data to make it usable

- Distributed systems for processing data
- Pipelines for extracting, transforming, and loading data
- Solutions for safeguarding quality, privacy, and security of data
- Performance optimization
- Adherence to compliance guidelines

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Storing data for reliability and easy availability of data

- Data stores for storage of processed data
- Scalable systems
- Ensuring data privacy, security, compliance, monitoring, backup, and recovery

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Making data available to users securely

- APIs, services, and programs for retrieving data for end-users
- User access through interfaces and dashboards
- Checks and balances to ensure data security