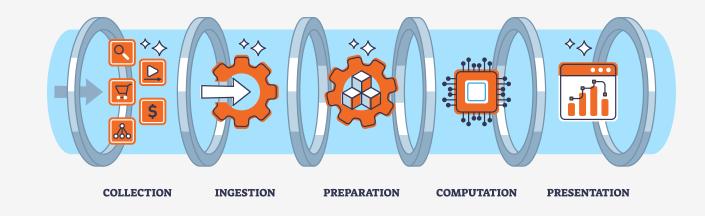


# What is Data Engineering?

Data engineering is the practice of building and maintaining systems that allow for data collection, storage, and analysis. Data engineers are the bridge between raw data and the insights gleaned from it.



Here's a breakdown of the key responsibilities of a data engineer:

#### **DATA COLLECTION:**

Data engineers design and implement systems to gather data from various sources. This can involve web scraping, extracting data from databases, or ingesting data.

### **DATA STORAGE:**

They develop and manage data storage solutions to efficiently store the collected data. These solutions may involve relational databases, data warehouses, or cloud storage solutions like data lakes.

## DATA PROCESSING AND TRANSFORMATION:

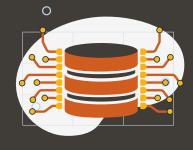
Raw data is rarely usable in its original form. Data engineers write scripts and use tools to clean, transform, and organize the data to prepare it for analysis.

### **DATA PIPELINES:**

Data pipelines are automated workflows that move data from its source to its destination, often involving multiple steps. Data engineers design and build these pipelines to ensure a continuous data flow.











#### **MAKING DATA ACCESSIBLE:**

They must ensure the data is readily available for analysts, data scientists, and other stakeholders. This might involve setting up user permissions and building data access dashboards.



Data Engineers play a critical role in enabling data-driven decision making. By building robust data infrastructure and pipelines and ensuring the quality and accessibility of data, data engineers allow organizations to glean valuable insights from data.



Let us customize the perfect **Data Engineering** Training Courses for your organization