
Cultural Daily

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Why Businesses Need Data Engineering

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Working with the technology of **big data** makes our life easier: we can build routes on maps, get recommended movies and music from applications, order food and clothes online. To make this possible, you need to process a lot of different data. Most often, such data is stored in cloud storage. Due to the demand for such processing, new professions have emerged. For example, a data engineer is a data engineer.

Data Engineer

Data engineers are the developers, builders, and managers of the big data infrastructure. Simply put, data engineers clean, prepare, and optimize data for processing. It is after processing the data that data scientists can begin to apply various analysis and visualization methods to obtain meaningful results. They also ensure the smooth operation of the system.

A data engineer can create a system that will store reports on company analytics for a certain period. That is, such a system will collect data from different sources, store it in the right form and process it so that the end user can figure it out. For example, output to a table.

Another example of a data engineer's job is a smart home system that will report problems. In this case, the data needs to be collected and processed "on the go".

How a data engineer is useful for business

The amount of data we produce every day is constantly growing. We store more and more data every day. Some of this data needs to be processed in order to make a particular business decision.

Therefore, a data engineer can work in different companies. For example, in tourism, finance, security, e-commerce. Any area where there are large amounts of information of various types is suitable. Globally, a data engineer helps to get rid of "data anarchy".

A data engineer does the following for a business:

1. collects product and/or customer information from various sources;
2. sorts and processes information so that it can be further processed;
3. organizes secure data storage.

All this a data engineer does with the help of different tools and programming languages.

WHEN AND WHY YOU NEED BIG DATA TECHNOLOGIES

Properly processed and analyzed big data helps to form a complete picture of your own company, competitors, and customers.

The output is:

- sales/profit growth
- improving the quality of service
- cost reduction
- improvement of the product, service provided

REMEMBER

- collect, save, analyze data using IT technologies;
- use them for their intended purpose;
- train employees in data analysis;
- share and exchange information.

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