Joan David Páez Olivares
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Task 1: What are common technical skills required for data engineer positions?

Data engineering is another domain that has been in high demand in the past few years and will increase in the future. Data engineering is the process of developing systems to enable the collection and use of data, and this data is used to enable subsequent analysis and data science. Data engineers are IT professionals who are responsible for collecting, managing and converting data in order to process it for data scientists or business analysts. Their main goal is to make data a basis for conducting studies and making future decisions.

Among the skills required by a data engineer we have:

- Big data technologies, which refers to one of the most important, since it is based on the generation of a large amount of data in a short time, data with which companies must deal and store them, tools such as Spark Apache or Apache Hadoop are the best for processing large volumes of data.

Within their range of skills, a data engineer also needs to know about data storage, how to do it and in what way. It is also important to have knowledge of cloud computing, since many companies have their

database services within a cloud or hybrid implementation model. Clearly, the must have knowledge about database management and implementation, data modeling and schema design, processing large volumes of data in real time, data visualization skills, and finally, know about machine learning processes, in order to automate different processes based on the data being handled.