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Data Lakes & Digital transformation

A Data Lake is a centralized repository that allows you to store all your structured and unstructured data at any scale. In a Data Lake, all data is accepted regardless of its format while retaining as much detail as possible.

In Data Lakes, data comes from multiple business areas and sources. Users are given the opportunity to dive, slice, dice, transform and use data according to their needs. One of the great advantages of a Data Lake is its exponential flexibility and responsiveness to change.

Massive and low-cost storage technologies have made the Data Lake paradigm not only viable but attractive. On top of a Data Lake, you can set up an infinite amount of ML/AI and Analytics initiatives without being tied to a specific data structure.

A successful Data Lake goes hand-in-hand with digital transformation initiatives supported by high value-added use cases.

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Data Lakes

Cost or Value?

Being able to receive all data streams captured by the organization has an enormous value to the organization. Additionally, Data Lakes can handle different types of data formats that were stored inefficiently with traditional data storage systems.

However, storing data cheaply still remains a cost as long as the data is not actively applied, and leading to better services, better decisions, and better use of resources. In other words, the decision to develop a Data Lake has to be based on concrete initiatives that contain ways to exploit the data and to apply AI / ML and Analytics with added value.

It is important to remember that having more data is not equivalent to having more knowledge. Having a Data Lake is a potential asset that requires a defined, careful and functional application of the data.

Leadership and initiative are needed to create concrete use cases that enable a profitable use of Data Lake.

Data Lake and Use Cases

A Sustainable Digital Transformation

Data Lake initiatives are successful when value added use cases are developed that take advantage of the data stored in the Data Lake.

One of the main constraints that organizations encounter is in the definition and development of use cases that should be analyzed from the perspective of business value, having a comprehensive and clear impact. Besides internal and domain knowledge, deep technical knowledge is also required for the development of viable, scalable, and sustainable solutions. It is these aspects that drive successful digital transformation initiatives.

This is where DareData Engineering becomes relevant by helping companies define, generate, and implement relevant use cases while developing an active and dynamic Data Lake that generates value to the organization.

To make it feasible to develop and maintain a significant number of these use cases, it is good practice to create a complete Data Lake governance and operation architecture.

Successful use cases generate the need to set up automation systems to periodically retrain the models or apply them to different business contexts. The big challenge lies in the integration of the models and their operation in the IT application/process ecosystem.

In conclusion, a Data Lake can be a lever for digital transformation, but it requires planning, conceptualization, and systematic search for high-value use cases that can be put into practice.

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About DareData & How We Can Help

About DareData

DareData Engineering is an expert Data & AI technology consulting company. We have contributed to high value-added initiatives across diverse industries and sectors from design and concept stages to large-scale implementation and operation using the latest cloud and open-source technologies. We value talent, agility, and the ability to execute as part of what makes us different.

We are an asset in the upcoming challenges involving the digital transformation of organizations.

Get in touch to talk about your organization's plans for the technological future:

https://daredata.engineering

contact@daredata.engineering

(+351) 932 174 951