



Data Minimalism: Do we really need so much data?

With the digital world gathering data like never before, there is a new question of whether all this data is really needed or are we putting more risk than we are creating value?

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Introduction

In the new digital generation, information has come to be one of the most prized assets. The constant gathering of user data by companies, governments, and applications is aimed at enhancing services and making superior decisions. This over abundance of data collection has however brought into serious question the issue of privacy and security.

Data minimalism is a new solution concept. It implies that organizations ought to be able to gather only the required data. This will not only ensure privacy of the users but will also minimize the risks that come with data breaches. In other nations such as Pakistan where computer systems are quickly expanding, data minimalism is gaining importance

"The most effective security measure to take is to gather less data."

Technology Overview

There is a close relation between Data minimalism and Data Privacy as well as ethical data management principles. It aims at restricting data gathering, storage and use to what is required to fulfill a given purpose.

The use of modern technologies such as Artificial Intelligence and big data systems tends to work with large amounts of data. Nevertheless, excessive data may lead to a more complex system and security concerns.

As an example, most mobile applications demand unjustified permissions, including connections to contacts or geographic information. With data minimalism, the developers are able to create systems that utilize only the necessary information, enhancing efficiency and trust among the users.

Key Findings & Impact

Data minimalism has some significant advantages:

1. Improved Privacy: The privacy of users is improved.
2. Minimized Data Breaches: There is less data to be compromised by hackers.
3. Enhanced System Performance: Smaller datasets are less difficult to handle.
4. Better Compliance: Assists in fulfilling data protection laws and regulations.

Nevertheless, there are difficulties:

- Balancing Data Needs: There are technologies that demand big datasets.
- Business Resistance: Organizations tend to use data to make profits.



- **Awareness Lack:** There is a lack of awareness on minimal data practices in many organizations.

The trend in the world is towards privacy-oriented systems. In the case of Pakistan, data minimalism can assist in establishing trust in digital environments and promoting the use of technologies safely among the population.

What's Next?

Responsible data usage holds the future of technology. The organizations are forced to re-evaluate their data collection practices and prioritize quality more than quantity.

Key steps include:

- Gathering data that is required.
- Adopting effective data protection policies.
- Training users on the rights to privacy.
- Designing privacy-first applications

With increased awareness, the idea of data minimalism will be adopted as a norm in the tech sector, and the digital world will be safer and more ethical.

About the Author

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