Data sharing, fabric and effective governance in the error of big data analytics

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In the era of big data, organizations are increasingly leveraging advanced data management strategies to enhance operational efficiency and drive innovation. This paper explores three critical components of modern data management: data sharing, data fabric, and data governance.

Data sharing facilitates seamless access and exchange of data across different departments and external partners, fostering collaboration and informed decision-making. However, it also raises concerns about data security and privacy, necessitating robust mechanisms to ensure data integrity and compliance.

Data fabric represents an architectural approach that integrates various data sources, both structured and unstructured, into a unified, intelligent data management framework. This approach enhances data accessibility, quality, and real-time analytics, enabling organizations to derive actionable insights from their data assets.

Data governance encompasses the policies, procedures, and standards that ensure data is managed effectively and responsibly. It addresses issues related to data quality, privacy, and compliance, ensuring that data is accurate, secure, and used ethically. Effective data governance is crucial for maintaining trust and accountability in data-driven environments.

Together, these elements form the backbone of a resilient data strategy, empowering organizations to harness the full potential of their data while mitigating risks associated with data misuse and regulatory noncompliance

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