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Cloud computing in big data

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The excessive amounts of data generated by devices and Internet-based sources at a regular basis constitute, big data. This data can be processed and analyzed to develop useful applications for specific domains. Also, Data quality monitoring is the process that evaluates a data set to determine if it meets the planning objectives of a project and thus provide data of the right type, quality, and quantity to support their intended use. Data quality monitoring is built on a fundamental premise: data quality is meaningful only when it relates to the intended use of the data. This is given rise to the development of computing models and tools for big data computing. However, the storage and processing requirements are overwhelming for traditional systems and technologies. Therefore, there is a need for infrastructures that can adjust the storage and processing capability in accordance with the changing data dimensions. Cloud Computing serves as a potential solution to this problem. However, big data computing in the cloud has its own set of challenges and research issues. as telecom, health care, retail, pharmaceutical,

financial services, etc., generate large amounts of data. Gaining critical business insights by querying and analyzing such massive amounts of data is becoming the need of the hour. The warehouses and solutions built around them are unable to provide reasonable response times in handling expanding data volumes. One can either perform analytics on big volume once in days or one can perform transactions on small amounts of data in seconds. With the new requirements, one needs to ensure the real-time or near real-time response for huge amount of data.

Biography

Kadry Sayed Mohamed is currently serving Information Technology Manager at the Egyptian Center for Economic Studies (ECES). He obtained his Ph.D. in wireless sensors network, B.Sc. in systems and computers and a software engineering diploma from Al Azhar University. He is also a Microsoft Certified Professional MCP for Windows NT server and Microsoft EXCEL also published extensively in many international journals. He is a member of the Information Security Audit and Control Association (ISACA).

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