



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)**

	Traditional Data	Big Data
✓ 1	Traditional data is generated in enterprise level.	Big data is generated outside the enterprise level.
✓ 2	Its volume ranges from Gigabytes to Terabytes.	Its volume ranges from Petabytes to Zettabytes or Exabytes.
✓ 3	Traditional database system deals with structured data.	Big data system deals with structured, semistructured, database, and unstructured data.
✓ 4	Traditional data is generated per hour or per day or more.	But big data is generated more frequently mainly per seconds.
✓ 5	Traditional data source is centralized and it is managed in centralized form .	Big data source is distributed and it is managed in distributed form .
✓ 6	Data integration is very easy.	Data integration is very difficult.
✓ 7	Normal system configuration is capable to process traditional data.	High system configuration is required to process big data.
8	The size of the data is very small.	The size is more than the traditional data size.



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✓ 9	Traditional data base tools (RDBMS) are required to perform any data base operation.	Special kind of data base tools are required to perform any databaseschema-based operation. (Hadoop, MongoDB, NoSQL)
10	Normal functions can manipulate data.	Special kind of functions can manipulate data.
✓ 11	Its data model is strict schema based and it is static.	Its data model is a flat schema based and it is dynamic.
✓ 12	Traditional data is stable and inter relationship.	Big data is not stable and unknown relationship.
13	Traditional data is in manageable volume.	Big data is in huge volume which becomes unmanageable.
14	It is easy to manage and manipulate the data.	It is difficult to manage and manipulate the data.
✓ 15	Its data sources include ERP transaction data, CRM transaction data, financial data, organizational data, web transaction data etc.	Its data sources include social media, device data, sensor data, video, images, audio etc.



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