Data Essentials

Data, Information, Knowledge, And Wisdom Raw and unstructured facts

contextualized, organized trend or pattern

Ability to solve a problem

Decision making and Judgments

Sources of Data

Experimental pata - clinical trials

observational sata - recorded through observations compiled pata - Manual data aggreated overtime and managed to database.

Simulated Data - result of studying certain behaviors

Human Generated Data - generated through mobile phones, INIED; audio, social media

Machine Generated wata - Digital Devices, for

Business Generated bata - stock exchange, Banks etc.

common Types of bata

Data formats

quantilative Data - measurable such as numbers and values, conclusive Qualitative pata - not measurable; descriptive. (unstructured data)

geospatial sala - Earth data, gps system

Digital data - images, Audio; video, webbased " on one

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Structured pata - Data having a defined formall, model, structured

Easy to search and analyze the csv, xis

Semi-structured Data - Data having flexible schema

schema maybe descriptive, partial or evolving Ex: XML, ISON, Gmail

Unstructured Data - No structure, Format or model Ex. Pdf, Jpeg, mp4

Data terminologies

Primary Data - collected by a person or group by themselves.

Secondary wata - collected by a third party

	bata Analytics - Exploring pata		
	and insights from the data. Date //		
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	* Database - Repository of data:		
	Data Analytics - process/technologiy used to explore data .		
	eata Aggregation - procedures to gather data		
	Metadata - detalls about data		
	Time series - analysis studying temporal patterns.		
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*	Anonymized Data - Individuals identifies are kept secret		
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	Data literacy reading and communicating data as information		
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	Adda science - 19 10 10 10 10 10 10 10 10 10 10 10 10 10		
	Deep learning - Neural network based ML Algorithms		
	AI - The ability of machines to demonstrate human like behavior.		
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pata Migration: Transfer of data from one storage system to another			
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Analyzing Planning Identifying stakeholders Explore the data determine impact, migration Identify data cut-off point Risk, Mitigation and Backup strategy create a data dictionary. 4mplementation Pesign configure tools Develop "source to target" mapping Myle migration scripts Determine ETL Transformations Migration Testing Execute migration steps Deploy all required tools Execute proper planning create test plan with accurate data coveriage go live including migrat design a migration Validation engine Load Transform Eatract moved transfo processes and retrieves and verifies data to reposit organizes extracted data Data Visualization - representing data in the form of charts, graphs and maps.