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HADOOP ASSIGNMENT

Anoth Characteristics of Big Bata

Valume:
Valume refers to the unimaginable amount of information generated every from social media cell fromes, cars, credit cards, M2M somsors, Ima

ges, video and whatnot etc.

Wariety:

If referes to heterogeneous sources and the makes

of late, both structured and unstructured. This

variety of unstructured late pases certain issues

for storinge, mining and analyzing data.

iii Velocity:

The term 'velocity' refers to the speed of generation on of date How fast the date is generated and processed to most the domands, determines real factoritial in the date.

(in Variablity

This refers to the inconsistency which can be shown by the Data at times, thus hambering the bracess of being able to handle and manage the data reflective

Same cof the techniques of Loto mining are used.

to analyze the big Lata such as clustering, pred

tion and classification and Decision took etc.

Abacho Hadoof, Abache shork, Abache Storm,

Page .

Mongo DB, NOSQL, HPCC are the Look used to hand le big data.

Ams? for many inclustries, big data isn't a choice but a maturally shaped reality, as data the amount of structured and unstructured data is grawing, exponentially, along with a wide notwork of 10T clevices construing it.

The major business apportunities poresented by highata have any include;

- · Automation: Lata bruien IT infrasbructures allow businesses to automate time consuming process ressuchas lata callection and consuming process
- · Trands and insights: big state remals hidden officients and patterns that can be used to tailor braclucts and services to and users' most sto increase operational efficiency.
 - · Data-based Decision-making: machines born on big data to enable bredective analysis and. Orive informed Decisions.
- · Cost reduction: big data insights can be used to streamline business processes in order to eliminate unnecessary costs and boost productivity

Ams Hackoof is an sepen source Distributed brooks ing frametwork that manages clata brocks - ing and storage for big data application in scalable clustures of ob computer servers.

Some mythe about hadopp wil: · Hadoop is a database Hadoop is cheap. · Hadoop requires rappedure: Some words to deplay. HDFS with their or HBase but mot trap tabreduce only contrals analytics: italso handles parallel Bragramming, fault tolerand · Hadoop is too risky for enterprise use. · Hadoop is a complete, single product: Hadoop is an ecosystem, a barnily of opensower brook Ansy HDFS is the storage system of Hadoof frame - work. It is a distributed file system that can conveniently sun con commodity hardwar for brocessing unstructured data. Netadata (Name, replicas.) Metadata ope Namemodo 1/home/500/thata, 8,... Block ops Read Databodes Datamodes. Rack Rack? Chant Hadoop HDFS Architecture Compruses of a single Hamenodo (Noster modo) and all the other modos are

Dato Nodos (Slaw modes). 1	IDFS cambo cloblayandana
boord spectrum of mache	nes that support sour.

Ans Hadoop eccesystem includes multiple companients

that suppost each stage of Big Data processing.

flume and Spoop ingest data, #

spork and Kappeduce process data.

· Pig Hive and Impala analyze data. · Hue and clouderea Sewich holp to explose data

· ocozie manages the work flow of hadoof jobs.