PARSHWANATH CHARITABLE TRUST'S



A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering
Data Science



Semester:

Subject : BDA

Academic Year: 2024 - 2025

Module 1: - Introduction to Big Data & Hadrop

Data :-

The quantities, characters, or symbols on which operations are performed by a computer. Alpahabeto (Az, a-z) digits (0-9) or special characters (+,-,/,*,<,>=,etc) which may be stored and transmitted in the form of electrical signals recorded on magnetic, optical, or mechanical recording media.

Information: Information is organized or classified data, which has some meaninful values for the receiver. Information is the processed data on which decisions and actions are based.

Big Date

Big Data is a term used for a collection of clota sets that are larged and complex difficult to store and process using available database management took or traditional data processing applications.

Subject Incharge: Prof. Richa Singh Page No._____

Department of CSE-Data Science | APSIT

Big data is date whose scale diversity, and complexity require new architecture, techniques, algorithms and analytics to manage it and extrect value and hidden knowledge from it. Normally we work on data of size MB (wordber or Excel), or maximum GB (movies) but data in Peta byles in almost 90% of today's data has been generated in the paot 3 years

Social Mating Site is

· Social Networking Site:

Face book, Google, Linkedin all

these sites generates huge amount of data on a

day to day basis as they have billions of uses

worldwide.

· E-Comerce Site

Sites like Amazon, flipkart, Alibaba

generates huge amount of logs from which users

buying trends can be traced.

· Weather Station:

All the Weather Station and Datellite

All the Weather Station and manipulated

in huge data which are stored and manipulated



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to forecast	Weather.	bee Interest of their
Telecom Com	paney:	
and a moon	Telecom gi	iants like Airtel, Vodafon
Study the	user bends a	nd accordingly publish
their plans	and for this te	ney store the data of
its million	Usero.	melding as each line
Share Mark	iet	the Paris Care, South at
	Stock exchang	e across the world
generates h	uge amount of	data through its daily
Thomas How	And the Tolera	a sender of out