



DEPARTMENT OF CYBER SECURITY & IoT

BIG DATA AND HADOOP LAB

OBJECTIVES:

1. To implement MapReduce programs for processing big data.
2. To realize storage of big data using MongoDB.
3. To analyze big data using machine learning techniques such as Decision tree classification and clustering.
4. Hands on practice on Bigdata handling using Hadoop and its eco systems.
5. Data processing using Map-Reduce techniques.
6. Store and Analyze data with Hadoop eco systems
7. Hands on Advanced parallel computing concept using Spark
8. Hands on sqoop knowledge.
9. Working with Hive to analyze large datasets.

OUTCOMES:

1. Store and manage data in HDFS
2. Implement basic applications in map-reduce.
3. Implement map-reduce applications with various MR patterns
4. Store and analyze data using PIG scripts
5. Able to handle partitioned and bucked tables in Hive.
6. Import and export data from databases like mysql or oracle.
7. Work with various file formats in hadoop echo systems.



MALLA REDDY UNIVERSITY

(Telangana State Private Universities Act No. 13 of 2020 &
G.O.Ms. No. 14, Higher Education (UE) Department)

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Photos:





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Equipment Details:

Big Data and Hadoop Laboratory	
Room No: 2-218	No of systems:90 working:-88
	Processor : intel i5 12th gen 12400 2.50Ghz
	Installed RAM : 16gb DDR4 3200MHZ
	SSD :- 256 GB x-64based pc
	System Type : 64-bit operating system, x64- based processor, cpu@2.50g
	Operating Systems: Windows 10,11 pro
	OS Version : 21H2, Edition-Windows
	Mouse : Lenovo,90
	Keyboard :Lenovo,90
	Monitor : Lenovo Thinkvision
Software Requirements	MAXHUB -Smart Board with Internet Connection Audio System with cordless mic
	Ananconda (jupyter Note Book), Monogodb database ,Hadoop,Hbase

COORDINATORS:

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