



Sandip Foundation's
Sandip Institute of Technology and Research Centre

Activity Report
On
Hadoop/Bigdata
(21st - 25th Aug 2015)

Organized by
Department of Computer
Engineering



Sandip Foundation's Sandip Institute of Technology and Research Centre

Activity Report On Hadoop/Bigdata

Resource Person: Mr Sachin Jadhav, Mr Ganesh Bhosale

Date: 21st Aug – 25th Aug 2015

Course Duration: 34 Hrs

Venue: Computer Centre, SITRC

Co-ordinator: Prof Mahesh Korade, SITRC, Nashik

Aim: To motivate students to use modern tools for handling huge amount of data.

Objective:

- 1) To promote and foster Big Data Science, Technology and Applications in the region and to develop core generic technologies, tools and algorithms for wider applications in Govt
- 2) To understand the present status of the industry in terms of Big data and Hadoop.
- 3) To develop a tactical Road Map and microlevel action plan clearly defining of roles of various stakeholders – Govt., Industry, Academia, Industry Associations and others

Outcomes: Participants learned:

1. To understand basics of Hadoop and Big Data.
2. To Install and use Hadoop to manage bigdata.
3. Google MapReduce, HDFS, Apache Sqoop
4. Write Java program of pig and sqoop

No of Participants: 100

Course Content:

Sr.No	Contents	Duration
1	Introduction to Hadoop <ul style="list-style-type: none">• What is Big Data?• Examples of Big Data• Reasons of Big Data Generation• Why Big Data deserves your attention	5 Hrs

	<ul style="list-style-type: none"> • Use cases of Big Data • Different options of analyzing Big Data 	
2	<p>Introduction To Hadoop</p> <ul style="list-style-type: none"> • What is Hadoop, • History of Hadoop • How Hadoop name was given • Problems with Traditional Large-Scale Systems and Need for Hadoop • Where Hadoop is being used • Understanding distributed systems and Hadoop • RDBMS and Hadoop 	5 Hrs
3	<p>Starting Hadoop</p> <ul style="list-style-type: none"> • Hadoop Architecture • Features of Hadoop • Hadoop Components- HDFS, Map Reduce • Anatomy of File write / read • Introduce other components of Hadoop ecosystem 	6 Hrs
4	<p>HDFS</p> <ul style="list-style-type: none"> • HDFS Commands. • Single node hadoop cluster • Understanding hadoop configuration files • Overview Of Hadoop Distributed File System <ul style="list-style-type: none"> o Name nodes o Data nodes o The Command-Line Interface • The building blocks of Hadoop. • Running HDFS Commands • Web-based cluster UI-Name Node UI, Map Reduce UI • Hands-On Exercise: Using HDFS commands 	6 Hrs
5	<p>Understanding Map Reduce</p> <p>How Map Reduce Works</p> <ul style="list-style-type: none"> o Data flow in MapReduce 	6 Hrs

	<ul style="list-style-type: none"> o Map operation o Reduce operation <ul style="list-style-type: none"> • Input and Output Formats • Partitions • Combiners • Schedulers • MapReduce Program In JAVA using Eclipse • Counting words with Hadoop—Running program • Writing MapReduce Drivers, Mappers and Reducers in Java • Real-world "MapReduce" problems <ul style="list-style-type: none"> o Hands-On Exercise: Writing a MapReduce Program and Running a MapReduce Job <ul style="list-style-type: none"> • Java WordCount Code Walkthrough 	
6	Hadoop Ecosystem <ul style="list-style-type: none"> • Hive • Sqoop • Pig 	6 Hrs
	Total Hrs	34 Hrs

List of Participants:

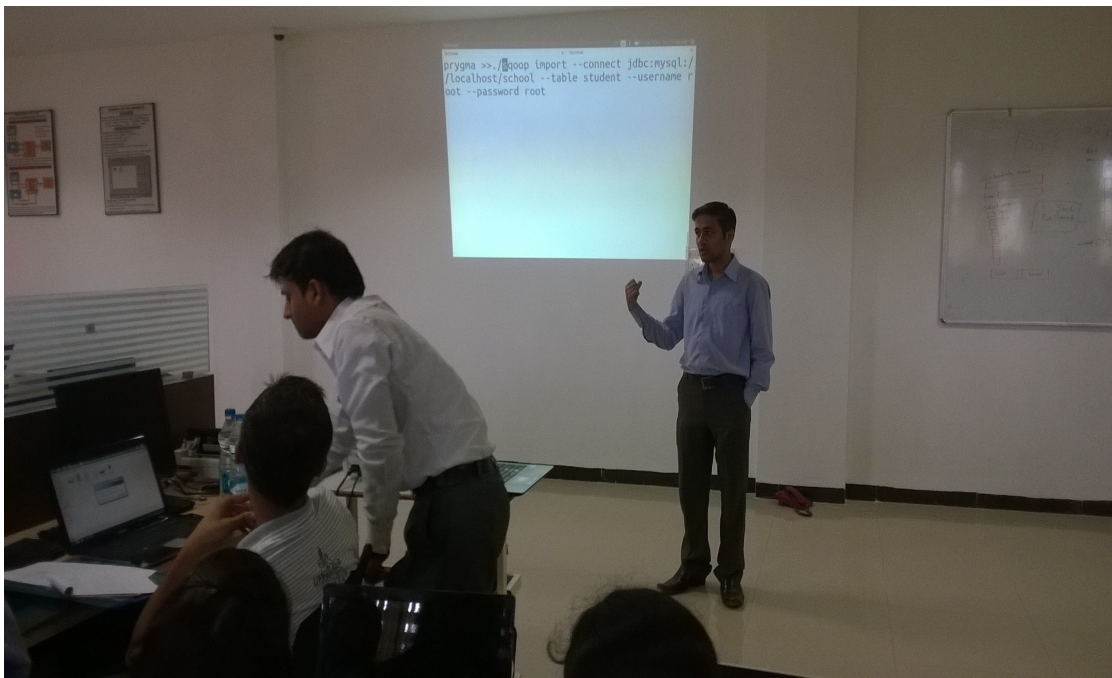
Sr.No	Name of Students
1	Alfiya Khalid Maniyar
2	Rashmee Vilas Waghode
3	Fahad Naser Khan
4	Shahu Sunil Kshirsagar
5	Roshan Vijay Shelke

6	Ketki Pradeep Jagtap
7	Ashwini Nitin Joshi
8	Umita Kishor Dhake
9	Gulnaz Kasim Shaikh
10	Kajal Arun Zope
11	Neha Mahesh Visal
12	Sharvari Sumant Shinde
13	Naeem Mahiuddin Shah
14	Dhwani Mukesh Patel
15	Kavita Rajendra Khairnar
16	Mohit Vishnu Adamanake
17	Ankit Uttam Wagh
18	Shyamji Anilkumar Pandey
19	Monika Dattatraya Pawar
20	Kanchan Purushottam Chavhal
21	Shubhangi Pandit Ingale
22	Gayatri Rajesh Aher
23	Komal Deepak Gaikwad
24	Divya Ramesh Patil
25	Lajari Kamalakar Ingale
26	Aakash Vijay Gole
27	Murtuza Nasir Kanchwala
28	Akash Manohar Bhamare
29	Harshal Sanjay Sonar
30	Pooja Prakash Pekhale
31	Akshata Rajendra Upadhye
32	Ashwini Kailas Nikam
33	Monika Madan Kawale
34	Naisargi Maheshbhai Pokar
35	Sujata Sunil Kulkarni
36	Deepali Chintaman Jaybhawe
37	Roshan Satish Deshmukh
38	Nutan Shamrao Kawale
39	Bhushan Santosh More
40	Namrata Rajendra Nagpure

41	Divya Deepakkumar Gohil
42	Piyush Narendra Jha
43	Tanvi Pramod Kulkarni
44	Rajnish Brijendra Rai
45	Priyanka Vijayrao Patil
46	Urvashi Phoolchand Yadav
47	Moiza Asif Shaikh
48	Tejaswini Sanjay Patil
49	Suraj Subhashchand Yadav
50	Pankaj Arun Mali
51	Komal Prakash Jain
52	Chetan Balu Mali
53	Divya Vasant More
54	Pradnya Dattatray Nagare
55	Priyanka Bhika Ner
56	Prachi Umesh Pachpatil
57	Shriprakash Shriram Pandey
58	Shubham Sevasingh Parihar
59	Chirangi Rameshbhai Parmar
60	Chaitali Pradip Patil
61	Danishkhan Sajidkhan Pathan
62	Vrushali Vijay Jadhav
63	Harshali Prasad Patil
64	Pavitra Mukunda Patil
65	Pooja Pundlik Patil
66	Rahul Avinash Jadhav
67	Manas Surendra Upasani
68	Gaytri Gajanan Lambe
69	Jyoti Santosh Pawar
70	Madhuri Manohar Baviskar
71	Shubhangi Eknath Medhane
72	Deepa Ratilal Pokar
73	Madhuri Ananda Shinde
74	Ashwini Bharat Patil
75	Prasad Gangadhar Kothawade

76	Tejaswini Rajendra Patil
77	Shruti Sanjay Gosavi
78	Aditi Aba Chaudhary
79	Parimal Pankaj Lokhande
80	Yash Sanjeev Kolte
81	Puranima Hari Mule
82	Mahima Nanik Ahuja
83	Sonali Mohan Adhav
84	Viresh Rajiv Chibber
85	Aniket Sanjay Marathe
86	Smita Dileep Gite
87	Shruti Anil Gojare
88	Gayatri Chandrakant Bagul
89	Kiran Dattatrey Hire
90	Varsha Laxman Waje
91	Snehal Sabhapati Yadav
92	Nandu Ashok Sarkate
93	Yogesh Kailashchandra Jangid
94	Chetana Madhukar Patil
95	Kalyani Nitin Patil
96	Apurva Anil Dhake
97	Shreya Vinay Dongre
98	Palash Sandip Dusane
99	Ganesh Sanjay Gujar
100	Chanchal Sanjay Bagul

Event Photographs:



Prof. Mahesh Korade
Co-ordinator

Prof A.D.Potgantwar
HOD