



One week Faculty Development

Program on

BIGDATA ANALYTICS WITH HADOOP

IL

From 9TH March to 13th March 2022

In Association with

IEEE Women in Engineering Affinity Group,

IEEE Bangalore Section

Organised By

**Department Of Computer Science and Engineering
Faculty of Engineering and Technology (Exclusively for women)
SHARNBASVA UNIVERSITY**

OUR SPIRITUAL GRACE & INSPIRATION

Ungalkya Poojya Doddappa Appa

7th Mahadasah Peethadhipati, Sharnbasveshwar Vidya Vardhaka Sangha, Kalaburagi

Matoshree Godutal Doddappa Appa

Sharnbasveshwar Samsthana, Kalaburagi

CHIEF PATRONS

Poojya Dr. Sharnbasappa Appa

1st Mahadasah Peethadhipati,

Sharnbasveshwar Samsthana,

President, Sharnbasveshwar Vidya Vardhaka Sangha &

Chancellor, Sharnbasva University, Kalaburagi

Matoshree Dr. Dakshayani S. Appa

Member, BOG, Sharnbasva University, Kalaburagi.

Chairperson, Sharnbasveshwar Vidya Vardhaka-

Sangha, Kalaburagi

Poojya Chiranjeevi Doddappa Appa,

1st Mahadasah Peethadhipati,

Sharnbasveshwar Samsthana, Kalaburagi.

PATRONS

Shri. Basavaraj Deshmukh

Secretary, Sharnbasveshwar Vidya Vardhaka Sangha,

Kalaburagi. Member, BOG, Sharnbasva University,

Kalaburagi

Dr. Niranjan V. Nistiy

Vice-Chancellor, Sharnbasva University, Kalaburagi

Shri N. S. Bevarikal

Pro-Vice-Chancellor, Sharnbasva University, Kalaburagi

Dr. V. D. Myrli

Pro-Vice-Chancellor, Sharnbasva University, Kalaburagi

Dr. Anilkumar G. Bidre

Registrar, Sharnbasva University, Kalaburagi

Dr. Basavaraj S. Mathapali

Registrar (Evaluation), Sharnbasva University,

Kalaburagi

Dr. Lakshmi Patil

Dean, Sharnbasva University, Kalaburagi

Prof. Kiran Meka

Finance Officer, Sharnbasva University, Kalaburagi

CONVENER

Dr. Lakshmi Patil

Dean, Sharnbasva University, Kalaburagi.

RESOURCE PERSON

Mr. Pankaj Singh, Sr. Data Analyst,

Dunhumby, India

ADVISORY COMMITTEE

Dr. M. Sasikala, Principal, Godutal Engineering College for

Women, Kalaburagi.

Prof. Shivaganga Patil, Chairperson, Department of E & C

Engineering.

Prof. Sheetal Biradar, Chairperson, Department of Civil

Engineering.

Prof. Shushma Patil, Chairperson, Department of E & E

Engineering.

Dr. Swati Kalashetty, Chairperson, Department of

Mathematics.

Prof. Jayasudha N, Chairperson, Department of Basic

Science.

Prof. Jagadev Patil, Assoc. Prof., Department of Basic

Science

Dr. Shilpa Shrigiri, Professor, Department of E & C

Engineering.

ORGANIZING COMMITTEE

CO-CONVENERS:

Dr. Shivalakshmi Patil, Professor, Department of CSE

Dr. Sujata Mallapur, Professor, Department of CSE

COORDINATORS:

Prof. Nandini V. Patil, Asst.Prof. Department of CSE

Prof. Vijayalakshmi Tadasi, Asst.Prof. Department of ISE

CONTACT DETAILS:

Prof. Nandini V. Patil: 91-9620255550

Prof. Vijayalakshmi Tadasi: 9743284000



One Week Faculty Development Program on "Big Data Analytics with Hadoop" 9th March 2022-13th March 2022



In association with

IEEE Women in Engineering Affinity Group Chapter, IEEE Bangalore Section

GEO Code: SBA1573R (Date of Approval: 18th April 2021)



ORGANISED BY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
FACULTY OF ENGINEERING AND TECHNOLOGY (EXCLUSIVELY FOR WOMEN),
SHARNBASVA UNIVERSITY, KALABURAGI

Phone: 98472-278144

Email: fetwcee@gmail.com

Website: www.sharnbasvauniversity.edu.in

ABOUT THE UNIVERSITY:

Sharnbasva University is the first private multi-disciplinary University in the entire North Karnataka providing avenues for the students to pursue higher education in almost all fields of education. Providing quality education at affordable cost has been the hallmark of the University. The University has set itself on the path of emerging as one of the Centre of excellence and a World Class University, which is the dream of Poojya Dr. Sharnbasappa Appa, the visionary Chancellor of the youngest private university in the entire state.

The Sharnbasva University is backed by the rich legacy of more than 100 years of providing quality education to the deprived sections of the people in the educationally backward Kalaburagi and neighboring districts. The Sharnbasveshwar Vidya Vardhaka Sangha, under whose aegis the Sharnbasva University is functioning, has the honor of starting the first school exclusively for girls way back in 1934 opening doors of learning to the girls. The legacy of providing optimum importance to the girl education has continued to this day and the Sangha was the first to start an exclusive Engineering College for Women in the entire North Karnataka and the second in the entire Karnataka. This College is now part of Sharnbasva University.

ABOUT THE FACULTY:

Faculty of Engineering & Technology (Ex-Women), Sharnbasva University is giving higher education of par excellence to Women, and empowers them to live independently with enlightenment and vocation to pursue. It has resolutions only for Women to move ahead of the revolution that is taking place in the areas like Computer Science, Electronics, Electrical and civil Engineering. As artificial intelligence is entering all spheres of our lives, there is a huge demand for researchers and scientists who can understand AI and develop AI technologies keeping this in mind to create more opportunities for women in this field started new courses in Artificial Intelligence, Machine Learning and

Data science. This faculty offers five Undergraduate programs (B.Tech in CSE, AI & ML, ECE,EEE, Civil) and Three post graduate courses (M.Tech in CSE, DCN, AI & DS).

ABOUT THE DEPARTMENT:

The department of Computer Science & Engineering was established in the year 2017, in the Faculty of Engineering and Technology (Exclusively for Women). Computer Science & Engineering Department is having a post-graduate course in Computer Science and Engineering and also a research program. Department is having well-equipped laboratories and experienced faculty members. Departments conduct periodic Faculty Development Programs, workshops, seminars, symposiums, conferences, and Tech Fests to help the faculties, students, and research scholars. The department has a very good placement record.

ABOUT FACULTY DEVELOPMENT PROGRAM (FDP):

Big data is changing the world with its advanced analytical capabilities. The world's data collection is growing dramatically with our day-to-day internet usage. It comes to a breaking point for significant technological changes that can bring new decision-making strategies, handling health, finance, education, agriculture, banking, marketing, cloud computing, etc. The inconvenient volume of data constitutes a sudden challenge to conventional computing domains and requires scalable storage and a distributed method for data querying and analysis. This workshop has been designed for diving deeper into big data technologies along with hands-on sessions on the concepts and tools used in Big data analytics.

TOPICS TO BE COVERED:

- Introduction of Hadoop and its installation
- Hands-on experience in installing single-node Hadoop, and working with HDFS, Spark, PySpark/DataFrame
- Data Analytics using SQOOP, Pig, and Hive.

OBJECTIVES: This workshop aims to provide a platform to exchange fundamental information concerning Big data concepts, tools and techniques to the faculty members, research scholars, and PG students of Universities and Colleges.

OUTCOMES:

This FDP will cover the basic algorithm that helps students, researchers, and faculty members to build and apply prediction functions with an emphasis on practical applications. Attendees, at the end of this workshop, will be technically competent in the basics and the fundamental concepts of Big Data Analytics with Hadoop Tools.

WHO CAN PARTICIPATE:

The faculty members of the AICTE approved institutions, Research scholars, PG scholars, participants from Government, Industry, and staff of host institutions.

REGISTRATION:

Maximum of 30 participants will be allowed to register for the FDP. Registration will be on first come first serve basis.

VENUE:

Seminar Hall, Department of CSE, Faculty of Engineering and Technology (Ex-for Women), Sharnbasva University, Kalaburagi.

REGISTRATION DETAILS:

Registration fee : 2500/- (including 18% GST)

Account Name : Chancellor-Finance Officer

Account Number : 520201006837674

IFSC : UBN0202022

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



















Title of the Event	Bidata Analytics with Hadoop
Date of the Activity Held	9 th March to 13 th March 2022
Resource person	Mr. Pankaj Singh
Professional Details of the resource person	Sr. Data Analyst, Dunnhumby, India
Program/FDP	Faculty Development Program
Number of participants registered	30
Activity in Charge	Prof. Nandini V Patil Prof. Vijayalaxmi T
Objective of the activity	FDP aims to provide a platform to exchange fundamental information concerning Big Data Analytics concepts, tools & techniques to the faculty members, research scholars, and PG students of University

ONE WEEK FACULTY DEVELOPMENT PROGRAM ON "BIG DATA ANALYTICS WITH HADOOP" 9TH MARCH TO 13TH MARCH

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SESSION 1

DATE: 12/3/22




















SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
1.	Mallikarjun P	CSE (Co-ed)	AIEF, Lab instructor	9403249992	
2	Shriniwas K	B CA	FCA B CA	9941229552	
3	Rangayya	ECE	FETW - Co-ed, KLB	9844207383	
4	Jagadeesh Patil	ECE	ECE (Co-ed)	9036511203	
5	Suresh	CSE	CSE (Co-ed)	9743810011	
6	Annapurna	CSE	"	9742172444	
7	Kan. Math	"	"	9945444740	
8	Shruti S.D	CSE	FETW, KLB	900532743	
9	Tyoti Nagihal	CSE	FETW KLB	9986700506	
10	Sunil	TAE	"	960865212	
11	Vijaylaxmi	"	"		
12	Vishalakshapate	ECE	FETW, SUK	7760546999	
13	Abhiksha patil	ECE	"		
14	Basamma	EEE	"		
15	Preethi	ECE	FETW (Co-ed)	9739200745	
16	Rekha D. Appa	"	"	9342708168	
17	Shalini T	MCA	MCA	9740207094	
18	Rambhat	MCA	MCA	9535389612	
19	Anuradha Patil	ECE	ECE, FETW	9481634093	
20	Shivaleela	EEE (Co-ed)	EEE SUK	8747994542	
21	Sushma	EEE (Co-ed)	EEE SUK	7892839537	
22	Preethi	EEE (Co-ed)	EEE (Co-ed)	9739200745	

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7	Kumari Mithu	"	"	9945444740	
8	Anusha S.D	CSE	FETW, Kib	985531743	
9	Jyoti Nigmal	CSE	FETW Kib	9956700506	
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12	Vishalaksh Patil	ECE	FETW, SUR	7760546999	
13	Abhilasha Patil	ECE	"		
14	Bojamma	ECE	"		
15	Pooja	ECE	ECE (Co-ed)	9739200745	
16	Renuka	"	"	9342708708	
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22	Pooja	ECE (Co-ed)	ECE (Co-ed)	9432201191	






















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Session wise report of FDP on BigData Analytics with Hadoop

Day 1

Session-1

Inauguration of one week Faculty Development Program on BigData Data Analytics with Hadoop. It was inaugurated by our bellowed Vice-chancellor, Register, Pro-vice chancellor and Dean and resource person Pankaj Singh. It has been started with enlightening the lamp followed by felicitation of the dignitaries on the dias. The gathering was addressed by the vice chancellor. It has been ended with vote of thanks.



First day it has started with introduction of Bigdata, requirement of bigdata, Application and types of data, Characteristics of Bigdata. Comparison with Other Systems, RDBMS, A Brief History of Hadoop, Apache Hadoop and the Hadoop Ecosystem, Hadoop Releases.



Session-2

It has start with the installation of Hadoop 2.8.4 on Linux operation system(Ubuntu 16).The installation is started with the java, ssh and hadoop. After download and installation, then set environment variables for hadoop and java. After that set the properties of some files of hadoop, then start all name node, data node, secondary name node etc, check all services are started.

Day-2

Session-1

Started session with small hadoop commands execution like file copy from hadoop to local file system, creating directories etc. Basics of hadoop mapreduce, how mapreduce work, algorithm. HDFS Architecture, MapReduce workflow indetail about combiner,partitioner, reducer.





Session-2

MapReduce application run on hadoop environment using java & Analyze output data.Hadoop Ecosystem setup.

Day-3

Session-1

Basics of Pig, modes , execution types and commands of pig like load data, dump data, describe & arithmetic operators etc. Cricket data analysis and crime data analysis using Pig. First collected the crime data n cricket data then using pig operation data analysis is done.

Session-2

Basics of matrix multiplication using Mapreduce. Created data as input , for that input analysis the data output. Basics of frequent itemset algorithms. Implementation of frequent data sets then applied that implementation for the supermarket data to find frequently purchased items together.

Day-4

Introduction to Hive, Database operation on hive, hive CLI, Hive architecture, data model and hive QL. Hive data types.

Session-2

Introduction to k means algorithm, implementation of k mean clustering. Introduction to Page rank algorithm and its implementation.



Day -5

Introduction to apache Spark, features of spark, operation, components of spark, architecture. Spark execution and working with it. Spark uses basic programming in SCALA. Execution of wordcount program using spark. Analysis of weather forecast data in spark.





Session -2

Basics of bloom filter and its implementation. Finally, Test is conducted for participant and they have announced first rank and second and third rank and rank participants are felicitated by the resource person. Valedictory function was done by our chairpersons Dr. Shivaleela Patil Professor computer science and engineering department and Dr. Sujata Mallapur professor Artificial Intelligence and machine learning. Finally took feedback of workshop from all participant.

