



One week Faculty Development

Program on

BIGDATA ANALYTICS WITH HADOOP

From 9TH March to 13th March 2022

In Association with

IEEE Women in Engineering Affinity Group,

IEEE Banglore Section

Organised By

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

OR SPIRITUAL GRACE & INSPIRATION

ingaikyaPoojyaDoddappaAppa **YlahadasohPeethadhipati,Shernbasveshwar Vidya dirdhaka Sanoha, Kalaburadi

MatoshreeGodutaiDoddappaAppa

SharnbasveshwarSamsthana, Kalaburagi CHIEF PATRONS

Phahadasoh Peethadipati.

Sharnbas veshwar Samshtana,

Pesident, Sharnbasweshwar Vidya Vardhaka Sangha & Chancellor, Sharnbasva University, Kalaburagi

Matoshree Dr.Dakshayni S. Appa Member, BOG, Shambasva University, Kalab Chairperson, Sharnbasveshwar Vidya Vardhak-a

Sangha, Kalaburagi Poolys Chiranjaevi DoddappaAppa, PMahaDaschaPesthadipathi, SharnbasveshwarSamsthanKalaburagi.

PATHONS

Sert. Besaveraj Deshmukh Secretary, Sharnbatveshwar Vidya Vardhaka Sangha, Kalaburagi. Hember, BOG, Sharnbatva University, Kalaburagi

Dr. Niranjan V. Nisty Vice-Chancellor, Shambasva University, Kalaburagi

Shri N. S. Devarkal Pro-Vice-Chancellor, Shambasva University,Kalaburagi Dr. V. D. Mytri

o-Vice-Chancellor, Shambasva University, Kalaburagi

Dr. Anilkumar G. Bidve Registrar, Shambasva University, Kalaburagi

Or. Basevaraj S. Mathapati Registrar(Evaluation), Sharnbasva University,

Or. Lakshowi Patil

Dean, Sharnbasva University, Kalaburagi

Prof. Kiran Maka Finance Officer, Sharnbassa University, Kalaburagi

CONVENER

Dr. Lukshmi Patii

Dean, Sharnbasva University, Kalaburagi,

RESOURCE PERSON

Mr. Pankaj Singh, Sr. Data Analyst, Dunnhumby, India

ADVISORY COMMITTEE

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

Women, Kalaburagi. Prof. Shiveganga Patil, Charperson, Department of E &

C Engineering: Prof. Sheetal Biradar, Chairperson, Department of Civil Engineering. Prof. Shushma Patil, Charperson, Department of E & E

Engineering. Dr. Swatt Kalashetty, Chairperson, Department of

Methematics. Prof. Jayasudha N, Chairperson, Department of Basic

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

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

ORGANIZING COMMITTEE

Dr. Shivaleria Patil, Professor, Department of CSE Dr. Sujata Hallapur, Professor, Department of CSE

COORDINATORS:

Prof. Nandini V. Patri, Asst.Prof. Department of CSE Prof. Vijaylakahmi Tadkat, Asst.Prof. Department of

CONTACT DETAILS:

Prof. Nandini V. Patil 91-9620255550 Prof. Vipylekstmi Tackai: 9743284000



One Week Faculty Development Program on

"Big Data Analytics with Hadoop" 9th March 2022-13th March 2022



ANALYTICS

In association with IEEE Women in Engineering Affinity Group

Chapter, IEEE Bangalore Section

60 Code: SBATST IN Chart 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: 08472-278144 Email: fetwcse@gmail.com Wetrsite: www.sharnbassauniversity.edu.in

BOUT THE UNIVERSITY:

Shambasva University is the first private multi-Sharmbasis university is the inst private must-disciplinary. University is the entire North-Karnatakaproviding evenues for the students to pursue higher education. In almost all fields of education. Providing quality education at affordable cost has been the nailmark of the University. The University has set self on the path of emerging as one of the Centre of excellence and a World Class University, which is the dream of Poolya Dr. ShambaswappaAppa, the visionary Chancelor of the youngest private university in the entire state. he hallmark of the University. The University has set

igacy of more than 100 years of providing quality ducation to the deprived sections of the people in the advication to the deprived sections of the people in the educationally backward Kalaburagi and neighboring districts. The Sharanabasaveshwar Vidya Vardhaka Sangha, under whose segis the Sharahabava University is tanctioning, has the book of starting the first school exclusively fair girst way back in 1934 opening doors of learning to the girst. The legacy of providing optimum interactions in the city development. importance to the girl education heacontinued to this day and the Sangha was the first to start an exclusive/fineering College for Women in the entire North Karnataka and the second in the entire Kernataka. This College is now part of Sharnbassa 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 resolution only for Women to vocation to pursoe. If he resolution only for Warmen to move ahead of the revolution that is taking place in the areas like Computer Science, Electricals, Electrical and dial 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 an 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 (8.Tech in CSE, Al &ML, ECE,EEE, Ovil) and Three post graduate courses (M.Tech in CSE, DCN, Al & 051

ABOUT THE DEPARTMENT

The department of Computer Science & Engineering was established in the year 2017, in the Faculty of Engineering and Technology (Exclusively far 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, seminary, symposiums, conferences, and Tech Fests to help the faculties, subsents, and revearch 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 proving capabilities. The works with the advanced analytical capabilities. The works data collectors 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, handing health, finance, education, agriculture, banking, marketing, cloud computing, etc. The inconvenient volume of data constitutes a sudden challenge to convenional 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 flig data analytics.

TOPICS TO BE COVERED:

- Introduction of Hadoop, and its installation
- Hands on experience in Installing single-note Hadoop, and working with HDFS, Sperk, PySparkDetaFrame 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 bechniques 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 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 Haddoop Tools.

WHO CAN PARTICIPATE

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

REGISTRATION

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

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

REGISTRATION DETAILS:

Registration Fee : 2500/- Excluding 18% GST) Account Name: Chancellor-Finance Officer Account Number : 510101006937674

https://bems.ele/GmSN/JaCewPOSHitt



C.I	Did a A day will be
Title of the Event	Bidata Analytics with Hadoop
	th th
Date of the Activity Held	9 th March to 13 th March 2022
Resource person	Mr. Pankaj Singh
•	, ,
Professional Details of the	Sr. Data Analyst, Dunnhumby, India
resource person	
•	
Program/FDP	Faculty Development Program
1 Togram, 1 Di	racarty Development Flogram
Number of participants	30
registered	
	D (N 1: :) / D : 1
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
	1
	students of University



In Association With
IEEE Women In Engineering Affinity Group
Chapter, IEEE Bangalore Section

SESSION

DATE:09 03 2 2

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
3	Maukommag	CSE	FETW, KLB	9945941982	de
at	Anypang	CSE	DETWOORD Y	9742172444	1
3	Malliarin	ч	, ci	9403249992	- Bira
4	Surenh	n	٦	9743810011	Sina
5	Togedersh Pan Briail-1 K	ECE	. 11	9036511203	8
6	Iniail-1-k	BCA	FCA BCA .	9541219112	P
र्न	Phalanab arappa	mea	Fed MEA	9740207094	Pan
8	law Bhat	MCA	FCA ROOMCA	9535389612	Rida
LT	Pecety	CIE	FAT (10-601)	9859200781	Beck
to	Parson son	le	/1	93423568	8
14	Passyre	t1	/1	9844207783	lee,
12	D.J.	74.		10 15 12 12 12	
3	Basavasa jappa	CRE	faculty LAEC	8217876464	Bli
_					×



İ

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

In Association With IEEE Women In Engineering Affinity Group Chapter, IEEE Bangalore Section

SESSION

DATE:09 03 2 2

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
3	Maukomma	CSE	FETW, KLR	9945941982	A
å	Anypana	CSE	FETGORED Y	9742172444	4
3.	Malliarin	4	h	9403249992	Dia
ų	Suresh	n	٦	9743810011	Sica
5	Togedeush Pan Briail-1 K	ECE		90365 11203	8
	Poriail-1 K	bea	FCA BCA .	9541219112	P
Ŧ	Phaland or appa	mea	Fed Med	9740207094	Ligar
89	lan Bhat	MCA	FCA BOOMCA	9535389612	Redo
UI.	Pecely	CIE	FH (10-601	9 \$ 59200 78/1	Kent
10	Pro-solegy-	U	/1	9342356108	2
14	Zagayya 01	4	/1	9844207783	Pie
12	Page				-
	Basavaso apra	CSE	faculty LAEC	8217876464	Bli
					×



In Association With IEEE Women In Engineering Affinity Group Chapter, IEEE Bangalore Section

SESSION

DATE: 10/3/22

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
١.	Malli lear jun P	CSE COF	AIET, Lab instructor	9403249992	Made
2	Snisa 1.1.K	RCA	CCA BCA	9941229552	
7	Rangaya	ELF	FEI- KO-EA, KILS	9844207313	PD
4-	Jagadeesh Patri		ECE (Lo-ed)	9036511203	8_
-	Surery	48€	(Sp (co-ed)	9743810011	Soi
· G	Anyzama	CSE	n	974217244	A
7	Kan mate	14	1)	gauryuutuo	X
6	Shrule S.D	CRE	CHU KIL	9060532743	B-
0	Tyoti Niginal	CSE	FETHI ICID	79867005Ub	Chal
1/6)	Suntains	TJE	11	2760865272	4
11	vijaplani	23	0.6		_
12	The second secon	ECE	FETW. SUK	7760546999	(Ven-
13	Abhilasha pale		ų ,		
14	Boyamma	REE	3 11		
15	100	CCE	TEFF (0-Ed)	9739200745	Ve. Ji
16			/,	9342018768	3
17	Sholan T	MCA	MCA	9740207094	8
18.	Rambhat	MCA	MCH	9535389612	Russ
121	1 0		FIF, FETW	9481634093	68
19.	Stevoleda	EFECTO-		874799454	2 tento
30		The state of the s	Y S F C LIFE	789283953	4
21	<u>cushma</u>	ELE CO a	A FFF	9+3420318	-
22	Prich	(1000	1 (11000)	1 1 2	1



In Association With IEEE Women In Engineering Affinity Group Chapter, IEEE Bangalore Section

SESSION 2

DATE: 14 3/22

SL NO	NAME	DEPT	COLLEGE/FACULTY		SIGN
1	Malliberjum P	CSE(G-Ed)	AIET/Labinstructor	9403249992	AND
2	Swen	cst(")	Alst mos	974381001	83
3.	Shalan. T	MCA	MCA	9740207694	
4.	- 1	MCA	MCA	9535389612	Res
5.		BCA	Jaculy & BCA	9941209172	200
6	Insedush Path	ECE	FOET	9036511203	2
7	Pacetra	ELE	Fer (co-cd)	9739200795	Pust
8	Remsillama	16		9342551.8	1
a	12 000	1	٨	984420738	NO
10	Basavasa appa	CSELAEC	FOCULY LLAEC	8217876464	PSV:
	13(4-3-4-3-1-5-1-5-1-5-1-5-1-5-1-5-1-5-1-5-1-5-1				
			Transport of the second		
			·		
					. *



In Association With IEEE Women In Engineering Affinity Group Chapter, IEEE Bangalore Section

SESSION

DATE: 12/3/22

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
1.	Mallilearium P	CSECOF	AZET, Lab instructor	9403249992	Man
2	dnia 1.1 K	2 CA	CCA BCA	9941,77922	MH.
	Rangya	CIE	FEI- KO-Ed, KILS	9844207313	FD
4	Jagadeesh Pates		ECE (co-ed)	9036511203	B_
S	Surery	48€	Sp (co-ed)	9743810011	83:
G	Anyjama	CSE	٧ .	974217244	A
7	Kan mate	1,	D.	aguryu4740	X
2	Theat 5.D	CKF	GHU KIL	906-531743	<u> </u>
a	Tysti Naghal	CSE	FETW LUB	9986700 SUB	The sale
	13.v.13.r.2	TE	+1	178686027	4
y *	· Jay Orti	t.t.	1.5		_
12	Vishalateh pale	ECE	FETW SUK	7766546939	Cin
12	Abhilasha palu		4		
14	Boyamma	EEE	10		
15	Page hi 1	G-CE	TETE (0-Cd)	7739200745	12. T
16	Real DA.	A	1,	9342018 708	9
17	Shalan T	MCA	MCA	9740207094	8
18.	Ranbhat	MCA	NCA	9535389612	Rus
19.	1 0 0 1	LEIF	FOF, FETW	9481634523	62-
30	Shevaleda		EEE SOR	(74799454)	Lun
	Sushma	ELE CON	TATE CARR	4813830531	المالكات ا
21	Diret	(1000	4	942420:14	- 4





In Association With IEEE Women In Engineering Affinity Group Chapter, IEEE Bangalore Section

SESSION 2

DATE: 14 3/22

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
1	Malliburium P	CSECG-Ed)	AIET/Labinstructor	9403249992	AND
2	Swien	c.st(")	Hest mos	974381001	83
3.	Shalan. T	MCA	MCA	9740207094	8
4.	Raybhat	MCA	MCA	9535389612	Ref
5.	Srisall	BCA	faculty & BCA	9445229172	200
6	Jaredush Patt	ECE	FOET	9036511203	De
7	Pecetion	Ere	FET (co-Ed)	9739200795	Purt
8	Reversillappa	15	11	9342511.8	1
a	12 and we	18	٨	984420738	Ka
10	Basavasa appa	CSELAE	FOCULTY LLAEC	821787646H	RY
	J				
				8	
			*		
			-		
					, 8



In Association With IEEE Women In Engineering Affinity Group Chapter, IEEE Bangalore Section

SESSION

DATE: 12/3/22

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
1.	Mallikarium P	CSE COG	AJET, Lab instructor	9403249992	162
2	Snia1.1K	RCA	CCA BCA	9941229552	HN.
1	Rangaya	CIE	FEI- KOTED, KUS	9844207383	P6-
4	Jagadeesh Palu		ECE (Lo-ed)	9036511203	Ø_
2	Surery	48€	(Sto (cored)	9743810011	Soi
G	Anypains	CSE	٧ .	974217244	A
7	Van: mate	10	D	gauryuytao	X
0	Shrul 5.D	CSE	CITU KIL	900532743	D.
0	Typh Neghal	CSE	FETW LLIB	9984002np	المرا
10	Surtain	TEC	11	11608602 N	4
11	vijagalovnij	23	(>		0
12	Vishalatshi pale	ECE	FETW. SUK	7760546999	Ven-
13	Abhilosha paile	ECE	y .		
14	Boyamma	EEE	5 10		
1+	Page ni 1	C-cE	" [F (0 - Ed)	9739200745	Rente
16		h	11	9342015768	9
17	Shalan T	MCA	MCA	9740207094	8
18.	Rambhat	MCA	MCA	9535389612	Rus
19.	Anunally Pal	IFIE	ECF, FETW	9481634093	68-
20	Shivoleda	FFF(co.d	BEE SUR.	8747994542	Leuk
		EEE CO W	F T C LAKE	7892839537	
21 ×3	Prietr	6000	The state of the s	9+3420075	*





In Association With
IEEE Women In Engineering Affinity Group
Chapter, IEEE Bangalore Section

SESSION 2

DATE: 12/3/22

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
1	Malliburium P	CSE(G-Ed)	AIET/Labinstructor		AND .
7	Swern	cst(")	Hest mos	974381001	83
3.	Shalan. T	MCA	MCA	9740207094	
4.	Raybhat	MCA	MCA	9535389612	Rec
5.		BCA	faculty & BCA	9941729172	- Xan
6.	Tructush Path	ECE	FOET	9036511203	De
7	Recetion	ELE	FET (co-cd)	9739200795	Pust
8	Reversidance	15	11	934255108	1
25	1	IN	٨	984420738	Va
10	Basavasa, appa	CSELAE	FOCULY LLAEC	821787646H	RY
			F		
			5.		
					*



In Association With IEEE Women In Engineering Affinity Group Chapter, IEEE Bangalore Section

SESSION

DATE: \$ 03/2 2

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
.)	Maukamma	CSE	FETW, KUB	9945941982	de
at	Anylana	CSE	I cTro-ed 5	9742172444	4
3	Mallilarina	47	L	9403249992	- As
4	Suresh	4	٦	9743810011	Silver
5	Josephersh Para	ECE	- 11	90365 H 203	B
	Imiail. 1 t	BCA	FCA BCA "	9545219117	K
7	Photomato arappa	men	FEA MEA	9740207094	Roga.
0	lan Bhat	MCA	FOR BROWNER	9535389612	Redo
υ.*	Pacela	CIE	FET (co-Ed)	9 \$ 59200 791	Kent
10	Las sallagga	li	//	934235568	2
11	Zagryy-0"	tj	<u>n</u>	9844207787	lag
12	BOSOVUSO CAPPU	CRE	1		Al.
-	DENVISO JAPRI	CXE	faculty LAEC	R217876464	8Ki
			y y		
			*		
					×



In Association With
IEEE Women In Engineering Affinity Group
Chapter, IEEE Bangalore Section

SESSION 2

DATE: 13/3/22

SL NO	NAME	DEPT	COLLEGE/FACULTY	CONTACT NO	SIGN
1	Anylang	CSE	FET - Edsucklis	9742172444	D
2	Swell	CSE	FET (0-01) SW14	9743810011	\$3.
3	Irrenduch Pali	ELE	11	9036511203	8
H	Shafan .T	MCA	foculty of Con Aprila	9740207094	8.
5	Ranghlat	MIP	, , ,	9535389612	ya.
6	Bisail	BCP	11 BCP	994171982	<i>L</i>
- By	Mallibarjum	CSE	FET- CCo-ed)	9403249992	AB
8	Rovans along	ECE	ty	9342335 108	P
9	Parme	r	· · · · · · · · · · · · · · · · · · ·	9844207383	fa
10	Plien	ECE	per (10-ed)	9759200745	Xub
(11	Basavasa jappa	CSE	FRT - LAEC	8217876464	BY:
	,				
			4		
					*



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 enlighting 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.

