
104.Research Trends in Data Analytics



K.L.E.Society's
B.V.Bhoomaraddi College of Engineering & Technology, Hubli -31
Department of Computer Science & Engineering

Workshop on

“Research Trends in Data Analytics”

15-17 March, 2017

104. Research Trends in Data Analytics



K.L.E.Society's
B.V.Bhoomaraddi College of Engineering & Technology, Hubli -31
Department of Computer Science & Engineering

The department of Computer Science organized TEQIP sponsored workshop on "Research Trends in Data Analytics" during 15-17th of March, 2017. The participants for the workshop were faculty members of BVCET and other engineering colleges in Karnataka.

Data Analytics stands for the intelligent and efficient handling and usage of large, heterogeneous and fast changing amounts of data. The ultimate goal of data analytics is the generation of valuable insights from ever growing amounts of data.

The goal of the workshop is to discuss on the state of the art and to present new research findings and perspective of future developments in the field of Data Analytics

I. Objectives of the workshop:

1. To train the participants on Data analytics technologies.
2. To give exposure to advanced tools and allow the participants to undergo experimental studies.
3. To motivate participants to carryout research in the areas of Data Mining and Data analytics.

II. Resource Persons:

1. *Dr. Srinivas Padmanabhuni, Chief Mentor, Tarah Technology, Bengaluru:*

Dr. Srinivas Padmanabhuni was awarded the title of "Eminent Engineer" by the prestigious and renowned organization "Institution of Engineers" (IEI). The award was given to Dr. Srinivas Padmanabhuni in recognition of his experience and contributions to the profession of Computers at the 32nd Annual convention of IEI His vast experience in the computing field, including marquee area of Artificial Intelligence (AI), brings a unique blend of academic, research and industry orientation, a rare combination. Srinivas Padmanabhuni is a Ph.D. in Artificial Intelligence. Srinivas Padmanabhuni co-founded CityMandi.com a next generation AI enabled smart B2B startup in Agri Tech focused on farm to fork. He has been the past president of ACM India, the top professional organization of computing professionals. He is the chief Mentor for Tarah technologies an AI consulting and training company. He specializes in areas of software engineering, AI and Machine Learning. Earlier, he was a Principal Research Scientist and Associate Vice President at Infosys where he overlooked the university innovation ecosystem, alongside research and innovation group in Infosys Labs. He has won several other awards including the excellence award for Innovation

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at Infosys, Research excellence award at University of Alberta, and Merit award at IIT Kanpur.

He is a Ph.D in AI from University of Alberta, Edmonton, Canada, specializing in AI. Prior to Ph.D. he secured his B.Tech from IIT Kanpur and M.Tech in CS from IIT Bombay.

2. *Dr. Anjaneyulu Pasala, Principal Research Scientist, Infosys, Bengaluru*

Anjaneyulu Pasala, Indian computer scientist. Recipient Outstanding Mentor award, Infosys Technology Ltd., 2009, Excellence award, Infosys. Member of Institute of Electrical and Electronics Engineers. He did his Bachelor of Technology in Electrical and Electronics Engineering, S. V. University College Engineering Tirupathi, Andhra Pradesh, India, 1985, Master of Technology, S. V. University College Engineering Tirupathi, Andhra Pradesh, 1988 and Doctor of Philosophy in Computer Science and Engineering, Indian Institute of Technology Madras, Chennai, India, 1998.

He worked as Lecturer R. V. College Engineering, Bangalore, 1988—1989, S. V. University College Engineering, 1989—1993. He was a Senior technical architect Hughes Software Systems, Bangalore, 1998—2001, Software architect Netkraft India, 2001—2002 and Tektronics India Development, Bangalore, 2002—2004. Research scientist Philips Research Asia, 2004—2006. Currently he is Senior research scientist Infosys Ltd., since 2006.

3. *Mr. Srikanth Gunturu, Senior SAP Software Architect, General Electricals(GE), Bengaluru*

Experienced Engineering Technologist with a demonstrated history of working in the product and services industry. Skilled in Java, Python, Machine Learning, IoT, Enterprise Architecture, Cloud platforms and Agile Methodologies. I enjoy solving problems, coding and mentoring.

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III. Brochure:

BVB College of Engineering & Technology

Established in 1947, BVBCEET has achieved an enviable status due to a strong emphasis on academic and technical excellence. From a modest beginning when the college offered only an Undergraduate program in civil engineering, the college has indeed come a long way. Currently college offers 12 UG and 9 PG programs affiliated to Visvesvaraya Technological University, Belgaum and is recognized by AICTE, New Delhi and accredited by NBA. Current annual student intake for Undergraduate & Post Graduate programmes is in excess of 1200.

The faculty consists of extremely qualified and dedicated academicians whose commitment to education and scholarly activities has resulted into college gaining Autonomous Status from the University and UGC. The college has adopted Outcome Based Education (OBE) framework to align the curriculum to the needs of the industry and the society. Innovative pedagogical practices in the teaching learning processes form the academic eco system of the institution. The active involvement of faculty in research has led to the recognition of nine research centers by the University.

Chief Patron
Dr. Ashok Shetter
Vice Chancellor
KLE Technological University, Hubballi

Patron
Prof. B.L. Desai
Rector
KLE Technological University, Hubballi

Dr. P.G.Tewari
Principal
BVB College of Engg & Tech, Hubballi

Convener
Dr. G.H. Joshi
Professor and Head, CSE
BVB College of Engg & Tech., Hubballi

Members
Ms. Lalitha Madanbhavi
Ms. Suravi Kanakreddi
Mr. Vijay S. Biradar
Mr. Parikshit P. Hegde
Mr. Manjunath K. Gonal
Mr. Shivalingappa Battur
Mr. Deepak Mehta
Mr. Sudhir R. Nayak

For further details contact
Dr. S.G. Totad / Mr. Vijay Bhajantri
Department of CSE
BVB College of Engineering & Technology
Hubballi - 580 031, Dharwad (Dist), Karnataka
Mobile : +91 9490345289 / 8495905111
Phone : +91 836-2378301 / 2378426
E-mail : data_analytics@bvb.edu

Coordinator
Dr. Shashikumar G. Totad

Co-Coordinator
Mr. Vijaykumar H. Bhajantri

Organized by
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
B. V. B. College of Engineering & Technology
Hubballi - 580 031, Karnataka
Website: www.bvb.edu

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OBJECTIVE

The goal of the workshop is to discuss on the state of the art and to present new research findings and perspective of future developments in the field of Big Data Analytics.

Big Data stands for the intelligent and efficient handling and usage of large, heterogeneous and fast changing amounts of data. The ultimate goal of big data is the generation of valuable insights from ever growing amounts of data.

This workshop aims to address these points in an elaborate manner so as to give its participants solid foundation to carry on their research/project works.

- To train the participants on Big Data technologies and its analytics.
- To motivate participants to carryout research in the areas of Data Mining and Big Data analytics.
- To give exposure to advanced tools and allow the participants to undergo experimental studies.

RESOURCE PERSONS

Dr. Anjaneyalu Pasala
 R&D, Infosys, Bengaluru

Dr. Srinivas Badmanabhuni
 Chief Mentor, Tarah Technology, Bengaluru

Mr. Srikanth Guntur
 Senior SAP Software Architect
 General Electricals (GE) Bengaluru

ELIGIBILITY

The workshop is open for Research scholars and faculty members of all engineering colleges and Universities.
 Pre-requisite: Programming Experience in C/C++/Java

REGISTRATION FEES

Duly filled registration form may be sent to the Workshop convener along with a crossed Demand Draft for the amount of Rs. 500/- drawn in favor of "The Principal, B.V.B. College of Engineering & Technology" payable at Hubli.
 There is no registration fee for TEQIP sponsored College.

IMPORTANT DATES

Last date for receiving applications : 10.3.2017
 Selection and Intimation to participants: 11.3.2017

ACCOMMODATION

Free accommodation will be provided based on availability at BVCET Campus, HUBBALLI.

**TEQIP SPONSORED
 3 DAYS WORKSHOP ON
 RESEARCH TRENDS IN BIG DATA
 15th - 17th March, 2017**

REGISTRATION FORM

- Name (in Block Letters): _____
- Educational Qualification: _____
- Designation: _____
- Department: _____
- Organization: _____
- Address: _____
- Ph. No. (O): _____ (R): _____
- Mobile: _____
- E-mail: _____
- DD Amount Rs: _____ DD No: _____
 Bank : _____
 Branch : _____ Date : _____

Accommodation required : Yes No

Place: _____
 Date: _____

Signature of the Applicant _____

Mr. / Ms. / Dr. / _____
 is an employee of our Institution and sponsored for the above programme.

Signature of the principal / HOD with seal _____

IV. Sessions and Schedule:

Day/Date	Session/Time	Topic
Day-1 15-03-2017	Session-I 9.00 – 11.00 am	Current Trends in Analytics: (Resource Person- Dr. Srinivas Padmanabhuni, Chief Mentor, Tarah Technology, Bengaluru) a. Programming for Data Science b. Machine Learning c. Streaming Machine Learning
	TEA Break	
	Session-II 11.15 – 12.45pm	Current Trends in Analytics: (Contd..) d. Programming for Map Reduce e. Apache Spark Ecosystem RDD phenomenon
LUNCH Break		
	Session-III 1.30 – 3.15 pm	Hands-On : (Resource Person- Dr. Srinivas Padmanabhuni, Chief Mentor, Tarah Technology, Bengaluru) a. Lab Session on Programming with Data Science with R

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		b. Machine Learning with R
		TEA Break
	Session-IV 3.30 – 5.00 pm	Research Agenda and Topics in Forward Looking Areas: (Resource Person- Dr. Srinivas Padmanabhuni, Chief Mentor, Tarah Technology, Bengaluru) a. Deep Learning and Applications b. Machine Learning - Online Machine Learning Algorithms c. Streaming Machine Learning c.1: Stream Clustering c.2: Streaming Very Fast Decision Trees c.3: Anomaly Detection
Day-2 16-03-2017	Session-I 9.30 – 11.00 am	Software Analytics: (Resource Person- Dr. Anjaneyulu Pasala, Principal Research Scientist, Infosys, Bengaluru) <ul style="list-style-type: none"> Building an Employee Knowledge Networks Analytics platform.
		TEA Break
	Session-II 11.15 – 12.45pm	Software Analytics: (Resource Person- Dr. Anjaneyulu Pasala, Principal Research Scientist, Infosys, Bengaluru) <ul style="list-style-type: none"> Applications for Enterprise collaboration
		LUNCH Break
	Session-III 1.30 – 3.15 pm	Software Analytics: Hands-On
		TEA Break
	Session-IV 3.30 – 5.00 pm	Software Analytics: Hands-On
Day-3 17-03-2017	Session-I 9.30 – 11.00 am	Industrial trends on Data Analytics: (Resource Person- Mr. Srikanth Gunturu, Senior SAP Software Architect, General Electricals(GE), Bengaluru) <ul style="list-style-type: none"> Introduction to Data analytics, in Industrial context Digital + Industrial, the new equation Top Industrial Data Analytics trends - an overview
		TEA Break
	Session-II 11.15 – 12.45pm	Data Analytics in Product Design & Manufacturing: Hands-on: case study (Resource Person- Mr. Srikanth Gunturu, Senior SAP Software Architect, General Electricals(GE), Bengaluru) <ul style="list-style-type: none"> Case study : Predictive and prescriptive analytics in a factory
		LUNCH Break
	Session-III 1.30 – 3.15 pm	Data Analytics in Product Design & Manufacturing: Hands-on: case study (Resource Person- Mr. Srikanth Gunturu, Senior SAP Software Architect, General Electricals(GE), Bengaluru) <ul style="list-style-type: none"> Case study: Collaborative business intelligence for an industrial enterprise
		TEA Break

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	Session-IV 3.30 – 5.00 pm	Data Analytics in Product Design & Manufacturing: <i>(Resource Person- Mr. Srikanth Gunturu, Senior SAP Software Architect, General Electricals(GE), Bengaluru)</i> <ul style="list-style-type: none"> Unleashing the power of Data analytics with Machine learning: Challenges and opportunities
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V. Committees and Responsibilities:

Sl. No.	Committee Name	Action	Date of Action																					
1	<u>Treasurer</u> Sri. S. G. Totad Sri. Vijay Bhajantri	Looking financial related activities.																						
2	<u>Procurement committee</u> Sri. S. Battur Sri. Vijay Biradar Sri. Vijay Bhajantri	1. Procurement of : <ul style="list-style-type: none"> Kits Badges Certificates for participants 2. Gifts <ul style="list-style-type: none"> Bouquets Water bottles Lighting lamp (Candle, Match Box, Oil, etc) 	04/03/17 04/03/17 04/03/17 15/03/17 15/03/17 15/03/17 14/03/17																					
3	<u>Brochure Committee</u> Sri. S. G. Totad Sri. Vijay Bhajantri	1. Design of Brochure 2. Posting/ mailing of the Brochure 3. Preparation of Course Schedule 4. Uploading of information on website	04/02/17 08/02/17 01/03/17 10/02/17																					
4	<u>Reception & Registration Committee</u> Ms. Lalita Madanbhavi Ms. Suvarna Kanakaradii Check List <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 70%;">Items</th> <th style="width: 10%;">Nos.</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr> <td>Invitation cards</td> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Kits</td> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Badges</td> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Certificates</td> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Reception counter Tables</td> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Reception Counter Desktops</td> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	Items	Nos.		Invitation cards		<input type="checkbox"/>	Kits		<input type="checkbox"/>	Badges		<input type="checkbox"/>	Certificates		<input type="checkbox"/>	Reception counter Tables		<input type="checkbox"/>	Reception Counter Desktops		<input type="checkbox"/>	1. Keeping all participant certificates ready. 2. Invitation distribution / mailing (local) 3. Kit packing 4. Kit distribution 5. Registration counter management. 6. Distribution of certificates.	09/03/17 02/03/17 07/03/17 08/03/17 08/03/17 10/03/17
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5	<p><u>Media & Banner Committee</u> Sri. Deepak Mehta Sri. S. Battur</p> <p>Check List</p> <table border="1"> <thead> <tr> <th>Items</th> <th>Nos.</th> <th></th> </tr> </thead> <tbody> <tr> <td>Banners</td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Badges</td> <td></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	Items	Nos.		Banners		<input type="checkbox"/>	Badges		<input type="checkbox"/>	<p>1. Design & procurement of Banners(5) 2. Display of banners at appropriate places 3. Inviting press people ?? 4. Arrangement of Photographer 5. Arrangement of Video</p>	<p>10/03/17 13/03/17 13/03/17 13/03/17</p>																																										
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6	<p><u>Accommodation, Logistics & Catering Committee</u> Sri. Vijay Biradar Sri. S. Battur Sri. Manjunath Gonal Sri. Sudir Nayak</p> <p>Check List</p> <table border="1"> <thead> <tr> <th>Items</th> <th>Nos.</th> <th></th> </tr> </thead> <tbody> <tr> <td>Participants List</td> <td></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Badges</td> <td></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	Items	Nos.		Participants List		<input type="checkbox"/>	Badges		<input type="checkbox"/>	<p>1. Accommodation arrangements for Resource persons. 2. Accommodation for participants. 3. Arrangement of travelling/transportation for all Resource persons.</p> <p><u>Catering:</u> 1. Menu selection 2. Identifying caterer & issuing order 3. Identification of venue</p>	<p>06/03/17 16/2/17 20/2/17 01/03/17 01/03/17 01/03/17</p>																																										
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7	<p><u>Program & Stage Management Committee</u> Sri. Parixit Hegade Sri. Vijay Bhajantri</p> <p>Check List</p> <table border="1"> <thead> <tr> <th>Items</th> <th>Nos.</th> <th></th> </tr> </thead> <tbody> <tr><td>Mementos</td><td></td><td></td></tr> <tr><td>Bouquets</td><td></td><td></td></tr> <tr><td>Badges</td><td></td><td></td></tr> <tr><td>Participation Certificates</td><td></td><td></td></tr> <tr><td>Program Schedules</td><td></td><td></td></tr> <tr><td>Info of VIPs on the dais</td><td></td><td></td></tr> <tr><td>White Board & Pens</td><td></td><td></td></tr> <tr><td>Candle</td><td></td><td></td></tr> <tr><td>Match Box</td><td></td><td></td></tr> <tr><td>OHP</td><td></td><td></td></tr> <tr><td>Transparencies</td><td></td><td></td></tr> <tr><td>OHP Marker Pen</td><td></td><td></td></tr> <tr><td>Water bottles</td><td></td><td></td></tr> <tr><td>Decoration Items</td><td></td><td></td></tr> <tr><td>Lighting lamp</td><td></td><td></td></tr> <tr><td>Badges</td><td></td><td></td></tr> </tbody> </table>	Items	Nos.		Mementos			Bouquets			Badges			Participation Certificates			Program Schedules			Info of VIPs on the dais			White Board & Pens			Candle			Match Box			OHP			Transparencies			OHP Marker Pen			Water bottles			Decoration Items			Lighting lamp			Badges			<p>1. Program schedule preparation for both inauguration and valedictory 2. Distribution of program schedule for dignitaries on the dais 3. Identification of anchors 4. Preparation of stage 5. Format for Attendance sheet of participants 6. Feedback Format 7. Distribution of honorarium + memento at end of the session</p>	<p>06/03/17 08/03/17 04/03/17 07/03/17 06/03/17 06/03/17 8-10 March</p>
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VI. Participants:

Forty participants attended the workshop, out of which 15 were internal faculty members and 25 external faculty members.

Attendance sheets:

K.L.E.Society's
 B.V.Bhoomaraddi College of Engineering & Technology, Hubli -31
Workshop "Research Trends in Data Analytics"
 15-17 March 2017

ATTENDANCE REPORT

Sl. No	Name of the Participant	Signature of the Participant					
		15/03/2017		16/03/2017		17/03/2017	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
1.	Ms. Geeta R Bharamagoudar	<i>Geeta</i>	<i>Geeta</i>	<i>Geeta</i>	<i>Geeta</i>	<i>Geeta</i>	<i>Geeta</i>
2.	Mr. Govind Negalur	<i>Govind</i>	<i>Govind</i>	<i>Govind</i>	<i>Govind</i>	<i>Govind</i>	<i>Govind</i>
3.	Mr. Aijazahmed Qazi	<i>Aijazahmed</i>	<i>Aijazahmed</i>	<i>Aijazahmed</i>	<i>Aijazahmed</i>	<i>Aijazahmed</i>	<i>Aijazahmed</i>
4.	Mr. Nagaraj Honnikoll	<i>Nagaraj</i>	<i>Nagaraj</i>	<i>Nagaraj</i>	<i>Nagaraj</i>	<i>Nagaraj</i>	<i>Nagaraj</i>
5.	Mrs. Channamma Patil	<i>Channamma</i>	<i>Channamma</i>	<i>Channamma</i>	<i>Channamma</i>	<i>Channamma</i>	<i>Channamma</i>
6.	Ms. Anusha Sabane	<i>Anusha</i>	<i>Anusha</i>	<i>Anusha</i>	<i>Anusha</i>	<i>Anusha</i>	<i>Anusha</i>
7.	Ms. Jyoti Amboji	<i>Jyoti</i>	<i>Jyoti</i>	<i>Jyoti</i>	<i>Jyoti</i>	<i>Jyoti</i>	<i>Jyoti</i>
8.	Ms. Puneeth N. Thotad	<i>Puneeth</i>	<i>Puneeth</i>	<i>Puneeth</i>	<i>Puneeth</i>	<i>Puneeth</i>	<i>Puneeth</i>
9.	Ms. Sangamesh M. Magi	<i>Sangamesh</i>	<i>Sangamesh</i>	<i>Sangamesh</i>	<i>Sangamesh</i>	<i>Sangamesh</i>	<i>Sangamesh</i>
10.	Mr. C. M. Jangin	<i>C.M. Jangin</i>	<i>C.M. Jangin</i>	<i>C.M. Jangin</i>	<i>C.M. Jangin</i>	<i>C.M. Jangin</i>	<i>C.M. Jangin</i>
11.	Mr. Prashant B. Madhavanavar	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>
12.	Mr. S F Rodd	<i>S F Rodd</i>	<i>S F Rodd</i>	<i>S F Rodd</i>	<i>S F Rodd</i>	<i>S F Rodd</i>	<i>S F Rodd</i>
13.	Mr. Anand Gowdar	<i>Anand</i>	<i>Anand</i>	<i>Anand</i>	<i>Anand</i>	<i>Anand</i>	<i>Anand</i>
14.	Mr. Prateek Hulgiol <i>Hulgiol</i>	<i>Prateek</i>	<i>Prateek</i>	<i>Prateek</i>	<i>Prateek</i>	<i>Prateek</i>	<i>Prateek</i>
15.	<i>MR. NIVRUP. KASTURJ</i>	<i>Nivrup</i>	<i>Nivrup</i>	<i>Nivrup</i>	<i>Nivrup</i>	<i>Nivrup</i>	<i>Nivrup</i>

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Workshop "Research Trends in Data Analytics"
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Sl. No	Name of the Participant	Signature of the Participant					
		15/03/2017		16/03/2017		17/03/2017	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
15.	Mr. Gururaj S Hanchinami	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
16.	Ms. Jayalaxmi G Naragund	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
17.	Ms. Sujata C	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
18.	Ms. Padmashree D Desai	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
19.	Ms. Manjula K Pawar	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
20.	Mr. Shantala Giraddi	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
21.	Mr. K M M Rajashchharaiiah	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
22.	Ms. Priyadarshini D Kalwad	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
23.	Ms. Deepak Metha	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
24.	Mr. Karibasappa K G	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
25.	Mr. S I Battur	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
26.	Mr. Shankar G Shetty	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
27.	Mr. Uday Kulkarni	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
28.	Mr. Ashok K Chikaraddi	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
29.	Ms. Deepa Mulimani	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
30.	Ms. Sujata R. Kulkarni	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
31.	Ms. Shashikala v. Budni	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
32.	Dr. P S Hiremath	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
33.	Ms. Rajeshwari M	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
34.	Ms. Archana S	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
35.	Mr. Manjunath B.E., K. Kundake TCE Guday	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
36.	Dr. P. R. R. S. S.	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]

K.L.E.Society's
 B.V.Bhoomaraddi College of Engineering & Technology, Hubli -31
Workshop "Research Trends in Data Analytics"
 15-17 March 2017

Sl. No	Name of the Participant	15/03/17	16/03/17	17/03/17
		[Signature]	[Signature]	[Signature]
37.	Radhika Ananth	[Signature]	[Signature]	[Signature]
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