

## Bio-Data



**NAME** : Dr. K. Lavanya  
**DESIGNATION** : Associate Professor  
**INSTITUTE** : Lakireddy Bali Reddy College of Engineering(Autonomous)-Mylavaram  
**AREAS OF RESEARCH** : Data Mining & Cloud Computing  
**EMAIL** : [lavanya.kk2005@gmail.com](mailto:lavanya.kk2005@gmail.com)  
**PHONE** : 8499097990  
**DATE OF BIRTH** : 09/06/1983

### **Educational Qualifications: B.E., M. Tech., Ph.D.**

Degree	Branch	College	University	Year of Admission	Year of Pass	% of marks
PhD	CSE	JNTUA, Anantapur	JNTUA, Anantapur	2014	August 2020	--
PG	CSE	JNTU College of Engineering, Kukatpally, Hyderabad	JNTUH	2008	December 2010	81.6%
UG	CSE	Narayana Engineering College, Nellore	JNTU	2000	April 2004	62.08%
Intermediate	MPC	APSWRJC, Muthukur	Intermediate Board	1998	May 2000	65.3%
SSC	MPC	ZP High School, Muthukur	SSC Board	1997	May 1998	64.5%

**Experience Summary: Teaching: 14.8 Years Industry: Nil Research: 5Years**  
**Total: 16.7 Years**

College	University	Post held	Duration		Ratified (Y/N)	Date of Ratification	Exp. in yrs
			From	To			
		Associate Professor	01-09-20	Till Date	N	---	1.2

LBRCE, Mylavaram	JNTUK, Kakinada	Sr. Assistant Professor	01-06-14	31-08-20	Y	12-06-2010	6.2
		Assistant Professor	18-12-08	31-05-14			5.5
MCE, Sigarayakonda	JNTUH	Assistant Professor	15-04-08	11-12-08	N	--	0.7
PECT,Nellore	JNTUH	Assistant Professor	01-06-06	31-03-08	N	--	1.9
NEC,Nellore	JNTUH	Assistant Professor	01-10-04	31-05-06	N	--	1.7

### **COURSES HANDLED:**

Object Oriented Analysis and Design, R Programming, Cloud Computing, C Programming, Data Structures, Advanced Java Programming, Network Programming, Database Management Systems, Image Processing, Web Technologies, Middleware Technologies, OOPs through Java, Computer Networks, Unix Programming, Software Engineering, Biometrics, Distributed Systems and Design Patterns.

### **PROFESSIONAL ACTIVITIES:**

### **PUBLICATIONS:**

#### **A) Journals:**

##### **2021-22:**

1. **K. Lavanya, , Gollamandala Vijaya Suresh, ” Gene Expression Data Classification with Robust Sparse Logistic Regression using Fused Regularization”, Turkish Journal of Electrical Engineering and Computer Science, December 2021,(Under Review)**
2. **K. Lavanya, , Gollamandala Vijaya Suresh, ” Gene Expression Data Classification with Robust Sparse Logistic Regression using Fused Regularization”, Turkish Journal of Electrical Engineering and Computer Science, December 2021,(Under Review)**

##### **2020-21:**

3. **K. Lavanya, G.V.Suresh,**” An Additive Sparse Logistic Regularization Method for Cancer Classification in Microarray Data”, The International Arab Journal of Information Technology, Vol. 18, No. 2, March 2021.<https://doi.org/10.34028/iajit/18/10>, ISSN: 1683-3198E-ISSN: 2309-4524, Impact Factor is 0.654, SCIE.

#### **2019-20:**

4. **K. Lavanya, K. Harika, D. Monica, K. Sreshta,**”Additive Tuning Lasso (AT-Lasso): A Proposed Smoothing Regularization technique for Shopping Sale Price Prediction”, International Journal of Advanced Science Technology, Vol 29,No 05,pp 878-886,2020. (SCOPUS)
5. **K. Lavanya, Devireddy Syamala, Kotha Vineetha Vani, Choragudi Gipsy,**” A Novel SVM-KNN Classifier for Cervical Cancer Diagnosis using Feature Reduction and Imbalanced Learning Techniques”, International Journal of Psychosocial Rehabilitation, Vol.24, Issue 6, pp:5151-5161,2020.ISSN 1475-7192. (SCOPUS)

#### **2018-19:**

1. **K. Lavanya, L. S. S. Reddy and B. Eswara Reddy,**” A Study of High-Dimensional Data Imputation Using Additive LASSO Regression Model”, Computational Intelligence in Data Mining,2019 Advances in Intelligent Systems and Computing 711. (SCOPUS)
2. **Lavanya K., Reddy, L., & Reddy, B. E. (2019).** Distributed Based Serial Regression Multiple Imputation for High Dimensional Multivariate Data in Multicore Environment of Cloud. International Journal of Ambient Computing and Intelligence (IJACI), 10(2), 63-79. doi:10.4018/IJACI.2019040105. (SCOPUS) (Web of Science) (ESCI)
3. **K. Lavanya, L. S. S. Reddy and B. Eswara Reddy,**” Modelling of Missing Data Imputation using Additive LASSO Regression Model in Microsoft Azure”, Journal of Engineering and Applied Sciences,2018, Vol 13, Special Issue 8, pp:6324-6334. (SCOPUS)
4. **Lavanya.K, L.S.S.Reddy, B. Eswara Reddy,** “Multivariate Missing Data Handling with Iterative Bayesian Additive Lasso (IBAL) Multiple Imputation in Multicore Environment on Cloud”, Volume 5, Issue 5 , May 2019,International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRSCE), PP: 54 – 58.

#### **2015-16:**

5. P Vamsi Naidu, **LAVANYA K,**” Making Data Analysis into Incentive Compatibility Mode Using DNCC Approach”, International Journal of scientific research and management, Vol 3, Issue 6, June 2015, ISSN:2321-3418.
6. CH SIREESHA, **LAVANYA K,**” A New Supportive Approach for Cost Minimization in SWN”, IJRCST, Vol 2, Issue 3, July-sept 2014, ISSN 2347-8446.
7. G. Venkata Krishna, **K. Lavanya,**” Multi Message Cipher Text Policy Attribute Based Encryption”, IJRCST, Vol 2 , Issue 3, July-sept 2014,ISSN 2347-8446
8. **LAVANYA K,** B NARESH REDDY, C NAGA RAJU,” Framework for Enhancing level of security to the ATM customers with DCT based palm print recognition”, international Journal of Applied Engineering Research, ISSN 0973-4562, Volume 9, Number 2014, pp. 5345-5351, ISSN 0973-4562. (SCOPUS)

**2013-14:**

9. DEEPIKA KOTHAPALLI, **LAVANYA KAMPA**” An Efficient Approach for Color Filter Array Interpolation with Statistical Demosaicing Filter”, International Journal of Engineering Associates, Volume 2, Issue 6, 2013.
10. Anusha.Ch, Srinivasarao. B, **Lavanya. k,**” A Comparative Study on Multimodal Biometric System with Compression Techniques “, International Journal of Advanced and Innovative Research, Volume 2, Issue 9, 2013.
11. **K. Lavanya,** Dr. C. Naga Raju., “An Approach to Enhance Level of Security to The ATM Customers by Hiding Face Biometric Data Using Steganography “, **Journal of Information Technology**, Vol 1, No 3, June-August 2012.

**2012-13:**

12. **K. Lavanya,** Dr. C. Naga Raju., “AN EFFICIENT TECHNIQUE FOR IRIS RECOGNITION BASED ON ENI FEATURES”, **Journal of Information Technology**, Vol 1, No 2, Mar-May 2012.

**2010-11:**

13. Dr. A. Nagaraja Rao, **K. Lavanya,** G. Aruna Kumari, M.N. Hima Bindu, “Segmentation based on circular edge magnitude for classification of Textures”, **IJCNS**, vol 2, pg no:24-29, Feb-2010.

14. **K. Lavanya**, Dr. C. Naga Raju, "A Novel Hybrid Histogram Approach for Impulsive Noise Image Segmentation", **CIT Journal of Research**, vol 1, No.1, May 2010

#### **2008-09:**

1. **K.Lavanya**, "Privacy preserving data mining techniques", National conference on informatics conducted by Narayana engineering college Nellore, December-2008

#### **B) Conferences:**

1. Lavanya K, G V Suresh , K Anu Priya ,," Predictive Analysis of Covid-19 Data using Two-Step Quantile Regression Method", 3rd International Conference on Emerging Technologies in Data Mining and Information Security, organized by School of Information Technology (Ashram Campus), a unit of Institute of Engineering & Management, Kolkata, West Bengal. India , 23rd to 25th February, 2022. (Accepted)
2. Lavanya K, G Raja Gopal ,M Bhargavi, Valveti Akhil , " Visualizing Missing Data", 2<sup>nd</sup> Congress on Intelligent Systems CIS-2021 organized by Soft Computing Research Society and CHRIST (Deemed to be University) , Bengaluru , September 4-5,2021. (Presented)
3. Lavanya K, Dr. L.S.S Reddy ,Dr. B. Eswara Reddy , " A Study of High Dimensional Data Imputation using Additive LASSO Regression Model", ICCIDM -2017 at Veer Surendra Sai University of Technology ,November 11-12,2017 ,AISC, [https://doi.org/10.1007/978-981-10-8055-5\\_3](https://doi.org/10.1007/978-981-10-8055-5_3)(SCOPUS).
4. Lavanya K, Dr. L.S.S Reddy, Dr. B. Eswara Reddy," Modelling of Missing Data Imputation using Additive LASSO Regression Model in Microsoft Azure", ICACSE -2017, July 15,2017. (SCOPUS).

#### **C) Book/Book Chapters:**

5. Dr. K. Lavanya,"Internet of Things(IoT) and Artificial Intelligence(AI) applications to fight COVID-19 Pandemic, Introduction to Data Science,ISBN:978-93-5416-648-8,IMMORTAL PUBLICATIONS,10-09-2020.
6. Kampa Lavanya, L. S. S. Reddy B. Eswara Reddy " A Study of High Dimensional Data Imputation using Additive LASSO Regression Model ", Computational Intelligence in Data Mining , ISBN 978-981-13-8676-3, Springer,2018-05-15.

**SPONSORED RESEARCH:**

SNO	Field	Title	Funded Agency	Amount	Status
1	Biometrics	A robust biometric tool for preserving attacks on ATM customers	DST	Rs.24,05,000/-	completed
2	Digital Marketing	Sustainable Livelihood Opportunities for Rural Women Self Help Groups WSHGs through Digital Marketing Strategies	DST WOMEN TECHNOLOGY PARK Division :SEED 31/10/2020	Rs. 64,28,980/-	Applied
3	Data Analytics	BIO-INSPIRED COMPUTING FOR DATA ANALYTICS	AICTE FDP Application Number: 1615011575 08/02/2021 to 08/02/2021	Rs.93,000/-	Sanctioned

**PATENT PUBLISHED:**

1. IP Australia on "IANM-Data Analysis: INTELLIGENTDATA ANALYSIS (Academic, Non-Academic) USING MACHINE LEARNING PROGRAMMING", Patent number: 2020102877, 19 October 2020.

**AWARD:**

1. Woman Researcher in Science and Technology Award, International Conference on Computer Vision, High Performance Computing, Smart Devices and Networks (CHSN-2020) during 28th-29th December 2020, JNTU Kakinada, India.

2. Women Researcher Award, VDGGOOD Professional Organization in 10th International Scientist Awards on Engineering, Science and Medicine, 26 & 27-Sep-2020, Hyderabad, India.

#### **SPEAKER/RESOURCE PERSON:**

1. Resource Person on 24<sup>th</sup> June, 2021 and 26<sup>th</sup> June, 2021 as a part of Faculty Development Program (FDP) titled "**Soft computing, Machine Learning and Applications**" held during 24-06-2021 to 28-06-2021, organized by Department of Information Technology of Lakireddy Bali Reddy College of Engineering, Mylavaram.
2. Resource Person on 04 Jan, 2021 as a part of the AICTE Sponsored Short Term Training Programme (STTP) - Phase I titled "**Trends and Challenges in Data Science**" held during 04" to 09 Jan, 2021, organized by PG and Research Department of Computer Applications, Hindusthan College of Arts and Science, Coimbatore.

#### **CERTIFICATION COURSES:**

1. Coursera," **Capstone: Retrieving, Processing, and Visualizing Data with Python**", 31-July 2020 by University of Michigan.
2. Got certified from **NPTEL** online certification course (8 Weeks) on **Data Science for Engineers**, Jan-Mar, 2020, IIT-Madras.
3. Global Certification AWS "**AWS Certified Cloud Practitioner** ",Issue Date: May 27,2020 ,Expiration Date: May 27,2023.
4. IBM and Coursera," **Data Analysis with Python**",31 MAY 2020.
5. IBM and Coursera," **Data Science Methodology**",31 MAY 2020.
6. IBM and Coursera," **Database and SQL for Data Science**",31 MAY 2020.
7. IBM and Coursera," **Python for Data Science**",31 MAY 2020.
8. IBM and Coursera," **Tools for Data Science**",31 MAY 2020.
9. AWS Training and Certification, "**AWS Academy Cloud Foundations (English)**",20 hours,26<sup>th</sup> April 2020.
10. IBM and Coursera," **What is Data Science?**",21 APR 2020.
11. IBM initiative Cognitive Class, "**Machine Learning with R**", 18 APR 2020.
12. IBM Developer Skill Networks, "**R-Essential**", 13 APR 2020.
13. Got certified with **Elite** from **NPTEL** online certification course (4 Weeks) on **Python for Data Science**, Aug-Sep, 2019, IIT-Madras.

14. Got certified with **Elite** from **NPTEL online certification course** (8 Weeks) on **Descriptive Statistics with R Software**, Feb-Apr,2019, IIT-Kanpur
15. Got certified from **NPTEL online certification course** (8 Weeks) on **Introduction to Programming in C**, Aug-Oct,2018, IIT-Kanpur
16. Certificate of Participation," Cisco **Cybersecurity Learn-A-thon**", Cisco Networking Academy, 16th July to 30th July 2018.
17. Completed Course on, "**Cyber Security Essentials**", Cisco Networking Academy, 2018.
18. Got certified from **NPTEL online certification course** (8 Weeks) on **Introduction to Machine Learning, Jul-Sep, 2017, IIT -Kharagpur.**
19. Got certified from **NPTEL online certification course** (8 Weeks) on **Programming, Data Structures and Algorithms using Python**, Jan-Mar, 2017, IIT -Madras.

#### **WORKSHOPS/FDPS ATTENDED:**

1. APSSDC online FDP on "Machine Learning using Python", 16-08-2021 to 04-09-2021.
2. National Supercomputing Mission, "**HPCWorkshop** ", IIT Dharwad,IIT Palakkad, and the NSM Nodal Center for Training in HPC and AI at IIT Madras on 20<sup>th</sup> and 27<sup>th</sup> March 2021.
3. AICTE Training And Learning (ATAL) Academy Online FDP on "**Deep Learning Using Convolutional Networks and Sequence Models**" Rao Bahadur Y. Mahabaleswarappa Engineering College, 2020-11-23 to 2020-11-27.
4. AICTE Sponsored One Week Short Term Training Program on "**Web Development with Python Django Framework**", Ramachandra College of Engineering,Eluru, 16- 20 November 2020. Phase-II
5. AICTE Sponsored One Week Short Term Training Program on "**Web Development with Python Django Framework**", Ramachandra College of Engineering,Eluru, 19- 23 October 2020. Phase-I
6. Webinar on "**Trust in the era of cloud computing: Security & Privacy Management**" on 24-07-2020 , by TECHGIG, Hosted by Global Chief Technology Officer and CEO- HGS MENA, Hinduja Global Solutions (HGS)
7. Webinar on "**Journey from Software Engineer to Dev/Ops**" on **23-07-2020**, by TECHGIG, Senior SoftwareEngineer, Cimpres.



8. Webinar on “**Responsible Extended Reality**” on **23-07-2020**, by TECHGIG, Advanced Technology Center in India,Accenture
9. Faculty Development Program on” **Block Chain Technology**”, by APSSDC, held from July 13th, 2020 To July 17th, 2020.
10. Online FDP on “**Microsoft Power BI**”, by APSSDC,15-06-2020 to 19-06-2020.
11. One Day workshop titled “**Knowledge Transfer in YouTube Platform**” organized by the Department of Computer Science and Engineering, LBRCE, on 08 June, 2020.
12. A One Day Workshop on “**Microsoft Teams Usage for Teaching Faculty**” organized by Department of Computer Science and Engineering, Lakireddy Bali Reddy College of Engineering (A), Mylavaram on 06/06/2020.
13. Two Week Online Faculty Development Program on “**Data Science using Python**”, organized by Department of IT in association with Swecha, Lakireddy Balireddy College of Engineering,15-05-2020 to 24-05-2020.
14. Quiz on “**Online Faculty Program on NBA**”, organized by Bharati Vidyapeeth College Of Engineering, Navi Mumbai, 05-11-2020. Quiz on”**National Level Quiz on NAAC**”, organized by Department of Computer Engineering, P.V.P.P. College of Engineering, Mumbai-22, 27-5-2020.
15. One day webinar on " **Enhancing Research Effectiveness using Scopus, Science directand Mendeley** "by Kurukshetra University, Kurukshetra in Collaboration with Elsevier(Under the Aegis of PMMMNMTT, MHRD, Govt. of India on 01.05.2020.
16. Webinar on “**Examination reforms to complement OBE requirements**” organized by the Department of Electronics and Computer Engineering,K L University held on 24th April 2020.
17. A 4-Day Online FDP on “**Data Science and Machine Learning using Python**”, organized by the Department of Electronics and Computer Engineering ,K L University,20<sup>th</sup> – 23<sup>rd</sup> April 2020.
18. One Day Workshop on “**C and C++**”, Teaching Learning Centre, ICT at IIT Bombay, 29-02-2020.
19. One Day Workshop on “**Arduino**” by Teaching Learning Centre, ICT at IIT Bombay, 8/2/2020
20. FDP on “**Python for Data Science**”, Aug-Sep,2019,IIT-Madras.

21. One day training program on "**Soft Skills for Teachers**", date: 08-11-2019, organized by department of Information Technology, LBRCE-Mylavaram.
22. Two Week E-Box Training Program on "**Problem solving through C**", during 18<sup>th</sup>-21<sup>st</sup> NOV, 2019, organized by LBRCE-Mylavaram.
23. FDP on "**Descriptive Statistics with R Software**" Feb-Apr,2019, IIT-Kanpur
24. One-week FDP on "**Artificial Intelligence & Machine Learning**" during 17<sup>th</sup> to 21<sup>st</sup> December, 2018 at LBRCE Mylavaram organized by MNIT Jaipur.
25. Cisco Networking Academy "**Cybersecurity Essentials course**", Department of CSE & IT, LBRCE-Mylavaram.
26. Two day international conference on "**Computation Intelligence and Data Engineering**", 14 and 15 th July, 2017, Department of CSE & IT, LBRCE-Mylavaram.
27. Two days national workshop on "**Application of IOT in Interactive Teaching-Learning**", 10-11<sup>th</sup> Feb, 2017, GHRIET, Pune.
28. FDP on "**IOT for Emerging Technical Applications**", 21-26<sup>th</sup> November 2016, organized by E& ICT Academy, NIT Warangal.
29. Two days workshop on "**Outcome-Based Education**", 6-7<sup>th</sup> June, 2017, LBRCE, Mylavaram.
30. FDP on "**HTML and Python Programming**", 6-15<sup>th</sup> June 2016, organized by E& ICT Academy, LBRCE Mylavaram.
31. Workshop on "**CYBER SECURITY & MALWARE ANALYSIS (Level-1)**", LBRCE-Mylavaram, DEPT OF IT, OCT 30-31, 2015.
32. Two week ISTE STTP on "**Introduction to Design and Analysis of Algorithms**" conducted by IIT -Kanpur ,APR 27<sup>th</sup> to MAY 30 th ,2015.
33. One Week National level Workshop on "**Wireless Sensor Networks and Its Applications**", JNTUH College of Engineering, DEPT OF ECEE, MAY 4-9, 2015.
34. One week workshop ON "**DATA STRUCTURES**", LBRCE-Mylavaram, DEPT OF IT, DEC 8-12, 2014.
35. A 7 Day Workshop on "**Cloud Computing, Big Data and Hadoop**", LBRCE-Mylavaram, DEPT OF IT, JAN 23-29, 2014.
36. TEQUIP II SPONSORED A THREE DAY HANDS ON TRAINING PROGRAM ON "**DIGITAL IMAGE PROCESSING AND PATTERN RECOGNITION USING MATLAB**", VRSEC, DEPT OF

CSE, JULY 4-6,2013.

37. AICTE SPONSORED SEMINAR On “**Service Oriented Architecture and Web Services**”, LBRCE, Dept. of CSE, AUG 16-17, 2013.
38. Two day program on “**BIGDATA HACKATHON**”, 30 & 31<sup>st</sup> January 2014, LBRCE, Mylavaram.
39. CSIR SPONSORED TWO DAY NATIONAL LEVEL WOKSHOP ON “**MULTIMODAL BIOMETRICS**”, From 26-07-2012 to 27-07-2012, Bannari Amman Institute of Technology (BIT)-Sathyamangalam, TN.
40. ONE DAY WORKSHOP ON “Advance Mission 10x” conducted by LBRCE, Mylavaram, January 2012.
41. FIVE DAY WORKSHOP ON “**Mission 10x**”, 15<sup>th</sup> to 19<sup>th</sup> November 2011, LBRCE, Mylavaram.
42. ONE DAY WORK SHOP ON “**Research opportunities for Women and Young Scientists in engineering, Science & Technology**”, 18<sup>th</sup> December -2010, LBRCE, Mylavaram.
43. Teacher Training Program (TTP) (INHOUSE) on “**Network Programming**”, 30-08-10 to 06-09-2010, LBRCE, Mylavaram.

#### **WORKSHOPS / FDPS / STTPS / TRAINING PROGRAMS ORGANIZED:**

1. THREE DAY WORKSHOP ON “**PROFESSIONAL SKILL DEVELOPMENT TRAINING FOR NON-TEACHING STAFF**” Phase-II (27<sup>th</sup> – 29<sup>th</sup> May, 2021) at LBRCE, Mylavaram organized by Department of IT for students.
2. NATIONAL LEVL ONLINE FACULTY DEVELOPMENT PROGRAM On “**SOFT COMPUTING, MACHINE LEARNING AND APPLICATIONS**” (24<sup>th</sup> – 29<sup>th</sup> June, 2021) ) organized by Department of IT ,LBRCE, Mylavaram .
3. Online workshop on “**NETWORK PROGRAMMABILITY**”, September 17<sup>th</sup> - 19<sup>th</sup>, 2020 at LBRCE, Mylavaram organized by Department of IT for students.
4. Two days workshop on “**Amazon Web services**” September 23<sup>rd</sup> & 24<sup>th</sup>, 2019 at LBRCE, Mylavaram organized by Department of IT in association with APPSDC.
5. Three day certification program on “**Big Data**” and “**Braintech Championship 2018**”,30<sup>th</sup> ,31<sup>st</sup> Jan and 1<sup>st</sup> Feb ,2019,ordanized by Dept. of IT in association with ELAN ,NVISION ,IIT Hyderabad ,Training Partner Azure Skynet.

6. Two Day Workshop on “**Development of Professional Skills**”, August 17 th & 18 th , 2018 at LBRCE, Mylavaram.
7. One day awareness program on “**Information and Cyber Security**”, 04th Jan, 2018, organized by Dept. Of IT in association with CDAC-Hyderabad

**PROJECTS SUPERVISED:** B.Tech – 40, M.Tech. - 15,

**MEMBERSHIPS:**

1. Life Member of Computer Society of India **CSI – L1501250**
2. Life Member of Computer Society of India **ISTE – LM129167**

**PROGRAM COMMITTEE:**

- Reviewer Committee Tech Science Press 2021
- Reviewer for Elsevier Journal Informatics In Medicine Unlocked
- Reviewer Committee ICCIDE-2020
- Advisory Committee ICCET-2019
- Reviewer Committee JCS from Science Publications
- Reviewer Committee for Journals IJSSCI, IJCINI from IGI Publications
- Reviewer Committee for Conference ICCIDE-2018

**ADVISORY AND ADMINISTRATIVE ROLES:**

1. IQAC and NBA Central Committee coordinator from A.Y 2021-22
2. Departmental NBA coordinator (3 Years Accredited Tier-I 2019 LBRCE-Mylavaram)
3. Member in BoS, DAC, & PAC (Since 2014) LBRCE-Mylavaram
4. Women Grievance Cell Coordinator LBRCE-Mylavaram
5. College Level Cultural Coordinator for LBRCE-Mylavaram, Annual Day((Since 2014)

(K.Lavanya)