

## **CURRICULUM VITAE**

**Dr.K. UMA MAHESWARI**

**Assistant Professor(Sl.Gr)**

**Department of Information Technology**

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➤ **Research Area:**

- Software Engineering, Software Testing
- Data Mining, Computer Networks
- Algorithms, Bioinformatics

➤ **Educational Qualifications:**

<b>Qualification</b>	<b>College/University</b>	<b>Year of completion</b>	<b>Percentage</b>	<b>Class</b>
Ph.D. (Information and Communication Engineering)	Anna University	2019	-	-
M.Tech(Software Engineering)	Bharathidasan University	2009	8.83(CGPA)	First Class with Distinction
B.E(Computer Science)	Bharathiar University	1998	65%	First Class

**Experience:** (chronological order)

<b>Name of Company / Institutions</b>	<b>Designation of Post</b>	<b>From</b>	<b>To</b>	<b>Experience in Year</b>
University College of Engineering, BIT Campus	Assistant Professor	07.03.2003	Till date	21 years 6 months
Sri Manakula Vinayagar College of Engineering,Pondicherry	Lecturer	17.05.2001	04.03.2003	1 year 9 months
Sri Muthukumaran Institute of Technology,Chennai	Lecturer	04.10.2000	05.05.2001	7 months
Jerusalem College of Engineering, Chennai	Lecturer	02.08.1999	03.10.2000	1 year 2 months

➤ **Additional / Academic Responsibilities at University:**

- Timetable Coordinator (2006-2008)
- Department Placement In charge (2007-2008,2009-2010)
- Lab timetable In charge(2008-2012)
- Class Coordinator – (2008-2012 Batch, 2012 – 2016 Batch,2019-2023 Batch)
- Project Coordinator- (2008-2012 Batch,20019-2023 Batch)
- PG Course Coordinator for Department of Computer Science and Engineering from 2019.
- Anti-Ragging Committee Member from 2022.
- Anti-Drug Committee Member from 2024.

➤ **Membership of Scientific and Professional Societies:**

1. Life Member, Indian Society for Technical Education (ISTE), India
2. Life Member, Computer Society of India (CSI), India.

➤ **Completed PG/UG Projects:**

- a. Number of PG Projects Completed: 22 Nos
- b. Number of UG Project Completed: 40 batches

## **Papers in National and International Journals**

1. V.Yogam, K.Uma Maheswari,"Automatic Annotation Wrapper Generation and Mining Web Database Search Result", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 3, March 2014,pp.10562-10569.
2. M. Monica Bhavani, K. Uma Maheswari ,” Smart Maps based on GPs Path Logs”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 2, February 2014, pp. 9529-95365.

- 3.K.Sindhuja, K.Uma Maheswari, "Side Information Analysis in Text Documents", International Journal of Applied Engineering Research", Volume 10, Number9,2015
4. M.BanuPriya, K.Uma Maheswari," Analyzing Cardiological dataset using Novel Time Interval based Algorithm", Middle East Journal of Scientific Research, Vol.24 ,pp. 19-25,2016.
- 5.M.BanuPriya,K.Uma Maheswari,"A Novel Time Interval based Algorithm for Data Fetching on BigData", International Journal of Engineering Research, Vol.4, Volume 4, Issue 11, 2016 ,pp.156-162.
6. K Uma Maheswari, Dr. A Valarmathi, J Jasmine," Effective Diagnosis Of Heart Disease Through Stacking Approach", Advances In Natural And Applied Sciences, 2017 July 11(9): Pages 323-328.
7. K Uma Maheswari, Dr. A Valarmathi, ,"A Novel Feature Selection Algorithm for Coronary Artery Disease Prediction", Applied Mathematics & Information Sciences, No. 4, 735-744 (2018).
8. K Uma Maheswari, Dr. A Valarmathi, ,"A Novel Approach for Gene Selection based on Random Forest-Variable Importance ",International Journal of Applied Engineering Research ISSN 0973-4562 Volume 14, Number 15, 2019
9. Dr. K Uma Maheswari, Dr. A Valarmathi, ,"A novel mechanism to recognize heart disease by optimised deep belief network with SVM classification", Journal of Intelligent & Fuzzy Systems 44 (2023) 167–184.
10. Annapoorani Gopal , Prabhu Chakkaravarthy Alagarsamy , Uma Maheswari Kalivaradhan, , Lathaselvi Gandhimaruthian," An Automatic Region Based Optimal Segmentation and Detection of Features on Dermoscopy Images Using V-Shaped Waterfall and Water Ridges", Traitement du Signal, Vol. 40, No. 2, April, 2023, pp. 511-522

## **Papers in National and International Conferences**

- 1 Jasmine veergeeniya. M , Uma Maheswari. K," Item Popularity based ranking for online recommendation systems", International conference on modeling ,optimization and computing, APRIL 2012.
- 2 A.Prasanna, K. Uma Maheswari," Cross workspace analysis for the detection of class signature conflicts", International conference on science and Innovative Engineering", March 2012.
- 3 A.Prasanna, K. Uma Maheswari," Detection of Indirect conflicts by Cross workspace analysis", International Conference on computing and Control Engineering, April 2012

- 4 S.Sudha, K.Uma Maheswari, S.Sasikumar,” Subject based Efficient Spam Detection Technique”, IEEE – International conference on Research and Development Prospects on engineering and Technology , March 2013.
- 5.A.Priya,K.UmaMaheswari,” Efficient Similarity Search by eliminating near duplicate detection in metric data”, National Conference on Emerging Trends in Computer Engineering & Technology, March 2013.
- 6 G.Jeyasri,K.Uma Maheswari,” Top k-answers over Relational Databases using Keyword search through tuple units”, International Conference on Innovative Trends in Computing and Technology, March 2013.
- 7 Subathra, K.Uma Maheswari,” Dependable and secure sensor data storage with dynamic integrity assurance”, National conference on Advanced Computing, August 2013.
- 8 Uma Maheswari.K, Saraswathi G,” Clustering Text Constraints using Algorithm”, International Conference on Innovative Trends in Computing and Technology, March 2014.
- 9 K.UmaMaheswari, A.Anbarasan,” An Efficient Approach for subspace clustering by using OCA 3DS Seeker Algorithm”, National Conference of Innovation in Computing and Communication Technology, March 2014.
10. V.Yogam, K. Uma Maheswari, “Annotation and Mining Web Database Search result”,International Conference on Architecture,Software Systems and Green Computing,2014.
- 11.Sindhuja. K,Uma Maheswari, “Side Information Analysis in Text Documents”,International Conference on Engineering Technology and science,March 2015.
12. Sindhuja. K, Uma Maheswari, “Analysis of side Information for Mining in Text Documents”,International Conference on “Advancements in computing and Communication Technologies”,April 2015.
- 13.M.Amsaveni, K.Uma Maheswari, “Twitter Data Analysis”, Online International Conference on” Green Engineering and Technologies”,2015
- 14.M.Amsaveni, K.Uma Maheswari ,”Cloud using E-Learning and ERP- Educational”, IFERP International Conference, Bengaluru. ISBN: 9788192958058,May 31,2015.
- 15.M. BanuPriya, Uma Maheswari .K, “A novel time interval based Algorithm for Data Fetching on Big Data”,National Conference on “Convergence of Computing Big Data Analytics and Networking Technologies and their impacts on Real world Environment”,March 19,2016.
- 16.A.RashoolSabika,K.Uma Maheswari,”Predicting User’s Daily Activities using smart Dairy”,2016 IEEE International Conference on Engineering and Technology,March 17<sup>th</sup>& 18<sup>th</sup> 2016.

17. K Uma Maheswari, Dr A Valarmathi, J Jasmine, “Effective Diagnosis Of Heart Disease Through Stacking Approach”, International Conference On Computing, Communication And Automation, 2017.
18. K Uma Maheswari, J Jasmine,” Neural Network Based Heart Disease Prediction”, National Conference On Trends In Information,Communication And Computing Technologies,2017.
19. Malini.S , Uma Maheswari.K , “A HYBRID APPROACH FOR HEART DISEASE PREDICTION WITH GENE – EXPRESSION DATA”, Second International Conference on Innovations in Engineering, Technology and Science (ICIETS-2018),March 13&14, 2018 K.Ramakrishnan College of Engineering, Tiruchirappalli, Tamilnadu, India.
20. K.Uma Maheswari, Dr.A.Valarmathi, “A Novel Approach for Gene Selection based on Random Forest-Variable Importance”,International Conference on envisioning the Future for Knowledge Engineering,March 2019.
21. K.Uma Maheswari, D.K.Priscilla, “A Superlative Piece of Protection for large Scale user data in Twitter”, ISTE Sponsored 6th International E-Conference on Latest Trends in Science, Engineering and Technology (ICLTSET’20) on April 13, 2020 Organized by Karpagam Institute of Technology, Coimbatore.
- 22.G.Suguna, K.Uma Maheswari, “CUSTOMER CHURN ANALYSIS FOR MAXIMIZING PROFIT USING STATISTICAL MODEL”, Virtual International Conference on Artificial Intelligence for IoT and Power GridNetwork’s (ICAIISEN’21).
23. Dr.K Uma Maheswari, Dr A Valarmathi,” Heart Disease Prediction Using Hybrid Artificial Intelligence Technique with Cascaded Neural Network”, TNSCST Sponsored 8th International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET’22) on May 20-21, 2022 Organized by Karpagam Institute of Technology, Coimbatore.

#### **List of Seminar / Short Term Course /FDP/ Workshop attended**

1. IBM Technology update program by Indicom software services, October 2004.
2. One day Workshop on Image and pattern recognition, Bharathidasan Institute of Technology, December 2006.
3. Short term intensive course on XML and Web services, Centre of Academic Excellence, AUT, 23-25,2007.
4. AICTE sponsored QIP Summer School on “Web Collaboration and Technology” ,B.S.A Crescent Engineering College, May 18-31,2009.
5. . AICTE Sponsored SDP on ”Mobile Adhoc Networking & Computing”, M.Kumarasamy College of Engineering, May 24-June 6,2010.

6. Train the trainers, Bharathidasan Institute of Technology, March 2011
7. AICTE Sponsored SDP on "Cloud Computing", M.A.M. College of engineering, 16-29 May 2011.
8. Workshop on Soft Computing Techniques, Anna University of Technology, Trichy, October 2012.
9. Orientation Program, Bharathidasan University, 01-28 February 2013.
10. Faculty Development Training Program (TEQIP Sponsored), Anna University, Chennai, 15-19 July 2013.
11. TEQIP II Sponsored FDP on "Soft Computing Techniques in Electrical Engineering" August 19-25, 2013.
12. TEQIP II sponsored National Seminar on Software Testing-An Industrial perspective, B.I.T Campus, Trichy, 21-22 November 2013.
13. TEQIP II sponsored FDP on "Challenges and Issues in Multimedia Mining", B.I.T Campus, 2-8 December, 2013.
14. TEQIP Sponsored workshop on "Tools & Technologies for Cloud Computing and Big data, Thiyagaraja College of Engineering, Madurai, May 5-7, 2014.
15. ISTE –SRM short term training program on "Big data Analytics", Easwari Engineering College, Chennai, June 2-8, 2014.
16. FDP on "Data Mining and Data Analytics", Nov 24<sup>th</sup>-28<sup>th</sup>, 2014.
17. Workshop on "Bigdata Analytics using Hadoop", March 23-24, 2015, B.I.T Campus
18. TEQIP Sponsored FFDP on "Network Technologies and security", B.I.T campus, May 4-19, 2015
19. International Workshop on "Big Data Visualization and Graph Databases", B.I.T campus, Feb 24-25, 2016
20. TEQIP II sponsored FDP on "Top Tech Trends- Driving the future of Information Technology" June 30-July 13, 2016
21. National Workshop on "Advances in High Dimensional Big Data for Industrial safety critical systems" (B.I.T), August 5-6, 2016.
22. TEQIP II Sponsored national level seminar on "Cloud Computing: A Hands on Approach" (B.I.T), September 15-16, 2016.
23. Anna University Sponsored National Level Workshop on Analytics for geosciences, HealthCare and Society (B.I.T) September 22-23, 2016.
24. Department of Bio-Technology, Ministry of Science and Technology, Govt. of India Sponsored workshop on "Modernization in Bioinformatics and Bigdata" (B.I.T), December 19-26, 2016.
25. Hands on Workshop on Python Programming, (B.I.T) August 28-29, 2017
26. National level workshop on "IoT and Android App Development using MATLAB/Simulink", July 22<sup>nd</sup>, 2017.

27. Two days National level workshop on IoT-LoRa (B.I.T) September 1-2,2017.
28. Workshop on Innovation and communication skills, (B.I.T) September 15,2017.
29. International workshop on “World Class Curriculum Design for Computer Science with Research Aspects”, Khajamalai Campus, Bharathidasan University, November 15, 2017.
30. NPTEL Course on “Database Management Systems”, 2018
31. NLTEL Course in “Introduction to Soft Computing”, 2018.
32. NPTEL Course on “Python for Data Science”, 2022
33. NPTEL Course on “Introduction to Internet of Things”,2022.(Jan-April 2022)
34. 3 Weeks Industrial Training on “Communication and Networking Technologies”, from 8.6.2020 to 26.6.2020.(BSNL)
35. FDP on LaTeX, UCE BIT Campus(Spoken Tutorial Project, IIT Bombay) from 10.08.2020 to 14.08.2020
36. Online FDP on “DataScience for All”, jointly organized by Electronics &ICT Academy,NIT Warangal, IIITDM Jabalpur from 27<sup>th</sup> July 2020 to 8<sup>th</sup> August 2020.
37. 5 day Online FDP on “ Inculcating Universal Human values in Technical Education” organized by AICTE from 6<sup>th</sup> December 2021 to 10<sup>th</sup> December 2021.
38. Online UHV Refresher1 FDP organized by AICTE from 21<sup>st</sup> February 2022 to 25<sup>th</sup> February 2022.
39. Online FDP on “Computational Biology(Interdisciplinary) sponsored by MeitY,organized by E&ICT Academy,NIT Warangal and UCE BIT Campus, from 13<sup>th</sup> July 2022 to 22<sup>nd</sup> July 2022.
40. Online FDP on “Bioinformatics,Algorithms,Applications and Tools(Interdisciplinary) sponsored by MeitY,organized by E&ICT Academy,NIT Warangal and UCE BIT Campus, from 16<sup>th</sup> May 2022 to 25<sup>th</sup> May 2022.
41. IP Awareness Trainig Program under National Intellectual Property Awareness Mission on February 24,2023.
42. 4 week Faculty Induction/Orientation Programme ,Teaching Learning Centre,Ramanujan College,University of Delhi form 22<sup>nd</sup> March 2023 to 20<sup>th</sup> April 2023.
43. Training program on Java Full Stack conducted by TalentNext form 3<sup>rd</sup> October 2023 to 20<sup>th</sup> October 2023.(Wipro)

➤ **List of Seminar / Short Term Course /FDP/ Workshop organized:**

- TEQIP Sponsored FDP-“Research Perception on emerging areas of computer science”, August 5-11, 2013.
- TEQIP II Sponsored two days workshop on "Business Analytics Using R" September 2-3, 2016.

- TEQIP sponsored Value Added Programme on “Advanced Linux administration and certification”, February 6-10, 2017.
- NKN Winter Faculty Development Programme on “Natural Language Processing”, 06<sup>th</sup> January – 10<sup>th</sup> January , 2020.
- One Day Workshop on “Hands on Training on Bioinformatics Using Perl”, 21<sup>st</sup> February 2020

**Guest lectures delivered:**

- Guest lecture on “Database Management Systems” at K.Ramakrishnan College of engineering on 08.09.2017.
- Panel member for Project review at K.Ramakrishnan College of engineering on 9.02.2018.
- Panel member for Project review at K.Ramakrishnan College of engineering on 18.02.2020.
- Guest lecture on “Bioinformatics using Perl” at Khajamalai Campus, Bharathidasan University on 06.03.2020.
- Guest lecture on “Bioinformatics using Perl” at Shanmuganathan College of Engineering
- Special lecture on “Design of Randomized Algorithms” at SRM Institute of Science and Technology, Tiruchirappalli Campus - 16.2.2023