

Detailed Bio Resume

Dr.L.Jegatha Deborah

***Assistant Professor and
Head Incharge,***

Department of Computer Science and Engineering,

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Employee Number: 63931

Research Supervisor Number: 21.04.43

Working as a teaching professional with over 10 years of experience and research works in the areas of Data Mining, Artificial Intelligence, Natural Language Processing and Databases. Possess a doctoral degree in the Faculty of Information and Communication Engineering.

Professional Experience

- ✓ Assistant Professor in University College of Engineering Tindivanam for about 7.5 years.
- ✓ Senior Lecturer in All Nations University, Ghana, West Africa for 1.5 years.
- ✓ Lecturer in Sethu Institute of Technology, Madurai for 1.8 years.
- ✓ Faculty in NIIT under Government Arts and Science College, Madurai for 6 months.

Education

UG1998–2002

- ✓ Bachelor of Engineering in Computer Science and Engineering under Madurai Kamaraj University.

PG 2003-2005

- ✓ Master of Engineering in Computer Science and Engineering under Anna University.

Doctoral Program 2009–2013

- ✓ Doctor of Philosophy in Information and Communication Engineering under Anna University Chennai.

Technical Skills

- ✓ OperatingSystem:WindowsXP/Vista,Fedora
- ✓ Database:Oracle,SQL
- ✓ GUI: VisualBasic
- ✓ Languages:Assembly,C,C++
- ✓ IDE:MATLAB7.14.0.739(R2012a)

Book Publication

- ✓ Published the book “Fundamentals of Digital Logic” through All Nations University, Koforidua, in the year 2007.

Book Chapter

- ✓ Published a chapter entitled “A Novel E-learning Management System for Appropriate Recommendations on the learning contents” for the book titled “Recent Advances in Intelligent Technologies and Information Systems” in 2013 under IGI Global Publishers, United States of America, pp. 16-45, Oct 2014, DOI: 10.4018/978-1-4666-6639-9.

Projects Undertaken

- ✓ Project entitled “**Semantic System for Performance Evaluation of E-Learners**” is taken under Center for Technology Development and Transfer, Anna University Chennai for an amount of Rs.50,000/- (Rupees. Fifty Thousand only) and for a period of one year.

[Reference: Proceedings No:1179/CTDT-1/RSS/University College, Tindivanam/2013 dated 26.08.2013](#)

Software Developed

- ✓ Developed e-learning software for content management, retrieval, delivery, evaluation and published in the domain “ucetelearnse.net”.
- ✓ Major Highlights
 - Collection and analysis of the descriptive answer patterns from the e-learners
 - Appropriate representation of the answers patterns that are collected from the learners electronically
 - Identification of an appropriate domain expert for an electronic course
 - Accurate techniques for assessing the descriptive answers patterns of the e-learners
 - Suitable similarity measures for ontology alignment

- Proper algorithms for classifying the learners based on their level of understanding the electronic course

Publications

Publications - International Journals

1. P.Vijayakumar, M.Azees, A.Kannan, **L.Jegatha Deborah**, “Dual Authentication and Key Management Techniques for Secure Data Transmission in Vehicular Ad-hoc Networks”, **IEEE Transactions on Intelligent Transportation Systems**, has been accepted for publication as a REGULAR PAPER. [**Impact Factor =2.377**] ANNEXURE – I
2. **L.Jegatha Deborah**, R.Baskaran and A.Kannan, “Learning styles assessment and theoretical origin in an E-learning scenario: a survey”, Springer-Artificial Intelligence Review (AIRE), vol. 42, no. 4, pp. 801-819, 2014.
<http://link.springer.com/article/10.1007%2Fs10462-012-9344-0>
3. **L.Jegatha Deborah**, R.Baskaran, A.Kannan and P.Vijayakumar, “Intelligent Agent Based Pair Programming and Increased Self-Efficacy through Prior-Learning for Enhanced Learning Performance”, Malaysian Journal of Computer Science (MJCS), vol. 26,no. 2, pp. 87 – 100, 2011.
<http://mjcs.fsktm.um.edu.my/document.aspx?FileName=1407.pdf>
4. **L.Jegatha Deborah**, R.Sathiyaseelan, S.Audithan and P.Vijayakumar, “Fuzzy-logic based learning style prediction in e-learning using web interface”, Springer – Sadhana –Academy Proceedings in Engineering Sciences”, Vol. 40, no.2, April 2015.
<http://link.springer.com/article/10.1007/s12046-015-0334-1#page-1>
5. **L.Jegatha Deborah** and P.Vijayakumar, “Detailed Analysis of Feature Subset Selection Techniques for Classification Algorithms”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol. 2, No. 9, 2015 [ISSN(online): 2394-3785].
6. P.Vijayakumar and **L.Jegatha Deborah**, “ElGamal Cryptosystem based group key management for Peer to Peer Communication”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET),Vol. 2, No. 9, 2015 [ISSN(online): 2394-3785].

7. **L.Jegatha Deborah**, R.Baskaran, and A.Kannan, “Deontic Logic based Ontology Alignment Technique for E-Learning”, International Journal of Intelligent Information Technologies (IJIT), vol. 8, no. 3, Pages 56-72, July 2012.
<http://www.igi-global.com/article/deontic-logic-based-ontology-alignment/69390>
8. **L.Jegatha Deborah**, R.Baskaran and A.Kannan “Visualizing Domain Ontology using Enhanced Anaphora Resolution Algorithm”, International Journal of Database Management Systems (IJDBMS), vol.3, no.3, pp. 110-123, August 2011 [ISSN 0975-5705].
<http://airccse.org/journal/ijdms/papers/3311ijdms10.pdf>
9. **L.Jegatha Deborah**, R.Baskaran and A.Kannan “A Survey on Internal Cluster Validity indices”, International Journal of Computer Science and Engineering Survey (IJCSES), vol. 1, no.2, pp.85-102, November 2010 [ISSN 0976-2760].
<http://airccse.org/journal/ijcses/papers/1110ijcses07.pdf>
10. **L.Jegatha Deborah**, S.Dhivya Lakshmi and A.Bharathi, “Hybrid Clustering Framework Using Concurrences and Constraints”, International Journal of Scientific and Engineering Research (IJSER), vol.5, no.5, pp. 485-493, May 2014 [ISSN 2229-5518].
<http://www.ijser.org/researchpaper%5CHybrid-Clustering-Framework-Using-Concurrences-and-Constraints.pdf>
11. P.Vijayakumar, S.Bose, A.Kannan and **L.Jegatha Deborah**, “Computation and Communication Efficient Key Distribution Protocol for Secure Multicast Communication”, KSII Transactions on Internet and Information Systems, vol. 7, no. 4, pp.878 -894, April 30, 2013.
<http://www.itiis.org/tiis/download.jsp?filename=TIIS%20Vol%207,%20No%204-16.pdf>
12. **L.Jegatha Deborah** and P.Vijayakumar, “Fuzzy Model with Learning Approaches for Classification Problem”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol. 2, No. 10, 2015 [ISSN(online): 2394-3785].
13. P.Vijayakumar and **L.Jegatha Deborah**, “A Detailed Survey on Secure Multicast Group Key Management Schemes” International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol. 2, No. 10, 2015 [ISSN(online): 2394-3785].

Publications - International Conferences – Proceedings Copy

1. P.Vijayakumar, M.Azees and **L.Jegatha Deborah**, “CPAV: Computationally Efficient Privacy Preserving Anonymous Authentication Scheme for Vehicular Ad Hoc Networks” **Accepted and presented in the 2nd IEEE International Conference on Cyber Security and Cloud Computing**, New York, USA, 2015.
2. **L.Jegatha Deborah**, V.Karthika, R.Baskaran and A.Kannan “Enhanced Anaphora Resolution Algorithm facilitating Ontology Construction”, First International Conference, ACITY 2011, vol. 198, pp 526-535, July 15-17, 2011.
http://link.springer.com/chapter/10.1007%2F978-3-642-22555-0_54
3. **L.Jegatha Deborah**, V.Karthika, R.Baskaran and A.Kannan, “Deontic-based Ontology Matching for Conflict Resolution between Text Documents” 5th International Conference on Information Processing, vol. 157, pp 149-154, August 5-7, 2011.
http://link.springer.com/chapter/10.1007%2F978-3-642-22786-8_18
4. **L.Jegatha Deborah**, R.Baskaran and A.Kannan, “Ontology Construction Using Computational Linguistics for E-Learning”, IVIC’11 Proceedings of the Second international conference on Visual informatics: sustaining research and innovations – vol. Part II, pp 50-63, 2011.
http://link.springer.com/chapter/10.1007%2F978-3-642-25200-6_6
5. **L.Jegatha Deborah** and P.Vijayakumar, “Dynamic Ontology Alignment Framework based on Linguistics, Summary and Structures”, Eighth International Conference on Data Mining and Warehousing, Accepted for publication in Elsevier Proceedings.
http://www.elsevierst.com/conference_book_download_chapter.php?cbid=78#chapter10
6. **L.Jegatha Deborah**, R.Karthika, S.Audithan and B.Kiran Bala, “Enhanced Expressivity using Deontic Logic and Reuse Measure of Ontologies”, Eleventh International Conference on Data Mining and Warehousing, ICDMW 2015 Proceedings of the Eleventh International Conference on Data Mining and Warehousing in Elsevier Procedia Computer Science, vol. 54, pp 318 -326, 2015.
<http://www.sciencedirect.com/science/journal/18770509/54>

7. P.Vijayakumar, **L.Jegatha Deborah** and R.Seshadri, “Efficient Key Management Scheme for securing data in Cloud”, International Conference on Intelligent Information Technologies (ICIIT 2014), 2014.
8. S.MiltonGanesh,P.Vijayakumar, and **L.Jegatha Deborah**, “A Comprehensive Survey on Gesture Based Authentication Schemes in Smart Phones” **Accepted for Presentation and Publication**,International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM’16), UCET, Feb 2016.
9. R.Manikandan, **L.Jegatha Deborah**, N.Arul, P.Ashok Kumara and A.RengaRajan, “System of Systems for Observation and Response in Quality-of-Service for Cloud Computing Environments”, **Accepted for Presentation and Publication**,International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM’16), UCET, Feb 2016.

Publications - International Conferences – Presentation Certificate

1. **L.Jegatha Deborah**, V.Karthika, R.Baskaranand A.Kannan, “Deontic-based Ontology Matching for Conflict Resolution between Text Documents” 5th International Conference on Information Processing, vol. 157, pp 149-154, August 5-7, 2011.
http://link.springer.com/chapter/10.1007%2F978-3-642-22786-8_18
2. **L.Jegatha Deborah**, R.Baskaran and A.Kannan, “Ontology Construction Using Computational Linguistics for E-Learning”, IVIC’11 Proceedings of the Second international conference on Visual informatics: sustaining research and innovations – vol. Part II, pp 50-63, 2011.
http://link.springer.com/chapter/10.1007%2F978-3-642-25200-6_6
3. **L.Jegatha Deborah**, “Students Performance Evaluation In E-Learning Based on Pair Programming- A Comparative Analysis”, International Conference on Modeling Optimization and Computing (ICMOC 2012), April 2012.
4. **L.Jegatha Deborah**, M.G.Lavakumar and T.Shenbagavalli, “Semi-Supervised Document Clustering via Pairwise Constraints”, International Conference on Recent Developments in Engineering & Technology 2015, March 2015.
5. **L.Jegatha Deborah**and M.Arokiamuthu, “Relationship Pattern Matching And Clustering Based Filtering For Big Data Application”, International Conference on Recent Developments in Engineering & Technology 2015, March 2015.

6. **L.Jegatha Deborah**, S.Dhivya Lakshmi and A.Bharathi, “Hybrid Clustering Framework Using Concurrences and Constraints”, International Conference on Trends in Technology for Convergence ‘TITCON – 2014’, 8th – 9th, April 2014.
7. **L.Jegatha Deborah**, “Intelligent Agent-based Pair Programming for E-Learning”, 4th International Conference on Futuristic Trends in Electronics Engineering (ICFTEE 2015), March 2015.
8. **L.Jegatha Deborah**, “An Intelligent Agent-based framework for Proactive web services in E-Learning”, Second International Conference on Advanced Research in Engineering and Applied Sciences, March 2015.

Publications - National Conferences

1. L.Jegatha Deborah and G.Hemalatha, “Agent Assisted Web Mining”, National Conference on Recent Advances and Future Trends in IT, pp. 11-19, February 2005.
2. P.Vijayakumar and L.Jegatha Deborah, “Tree based Key Management Scheme for Secure Multimedia Multicast”, National Conference on Computing and Applications (NACCA 06), pp. 238 – 244, February 2006.
3. S. Senthil Nayaki, L. Jegatha Deborah, R. Baskaran and A. Kannan “A Similarity measurement technique for ontology construction in intelligent web based e-learning”, National Conference on Advanced Pattern Mining and Multimedia Computing, pp. 112-122, Feb 2010.
4. L.Jegatha Deborah and P.Vijayakumar, “Enhanced Detection of Learners Learning Styles for E-Learning”, National Conference on Computing Techniques (NCCT '15), pp. 464 – 477, March 2015.

Faculty Development Programs Attended (2010–2015)

S.No.	Name of the Program	Start Date	End Date
01.	DSA sponsored workshop on “Challenges in Intelligent Web Applications” at Anna University Chennai.	09.03.2009	10.03.2009
02.	ISTE sponsored program on “Database Management Systems” at Anna University Chennai.	19.10.2010	23.10.2010
03.	DST sponsored workshop on “Grid Computing” at Anna University Chennai.	07.02.2011	11.02.2011
04.	MHRD sponsored FDP program on “Writing Effective Conference Papers” at Anna University Chennai.	18.02.2012	19.02.2012
05.	FDP program on “Software Engineering” at Anna University Chennai.	07.05.2012	13.05.2012
06.	AICTE sponsored program on “Data Mining Techniques” at the Manakula Vinayagar Engineering College, Puducherry.	28.06.2012	30.06.2012
07.	First International symposium on “Big Data and Cloud Computing Challenges” at VIT University Chennai.	27.03.2014	28.03.2014

08.	FDP program on “Database Management Systems” at Anna University Chennai.	23.06.2014	29.06.2014
09.	DST – PURSE sponsored workshop on “Recent Techniques in Web Services and Internet Security” at Anna University, Chennai.	18.02.2015	19.02.2015

Technical Programs/ Seminars Conducted at College

S.No.	Name of the Program	Start Date	End Date
01.	FDP program on “Artificial Intelligence”.	03.12.2012	09.12.2012
02.	National Level Technical Symposium, TECHNOVATION.	19.08.2011	19.08.2011
03.	National Level Technical Symposium, SERVIDOR2k12.	28.09.2012	28.09.2012
04.	Intra College Technical Symposium, UCETROX’13.	11.02.2013	11.02.2013
05.	Seminar on “Artificial Intelligence and Temporal Models”.	13.03.2014	
06.	Workshop on “Android Development and its applications”.	07.03.2015	
07.	Workshop on “Web services and its applications”.	16.03.2015	
08.	FDP program on “Programming & Data Structures II”.	08.06.2015	14.06.2015

Other Participation Programs (2010–2016)

S.N.	Name of the Program	Nature of Participation	Date/Month/Year of Participation
01.	National Level Technical Symposium, Globes' 10, VRS College of Engineering and Technology, Villupuram.	Invited Speaker – Valedictory Address	September 2010
02.	3 rd International Conference on Futuristic Trends in Electronics Engineering, Thiruvalluvar College of Engineering and Technology, Vandavasi.	Invited Speaker	28.01.2012
03.	FDP Program on “Artificial Intelligence”, University College of Engineering Tindivanam, Tindivanam.	Speaker for one session	03.12.2012
04.	FDP Program on “Recent Advances in Artificial Neural Networks”, Manakula Vinayagar Institute of Technology, Puducherry.	Speaker for one session	22.04.2013
05.	FDP Program on “Logic and its applications”, University College of Engineering Tindivanam, Tindivanam.	Speaker for one session	01.07.2013
06.	Department Technical Association Valediction Function, Mailam Engineering College, Mailam	Chief Guest and Speaker	30.04.2013
07.	Department Technical Association Inaugural Function and Guest Speaker, Mailam Engineering College, Mailam.	Chief Guest and Speaker	24.08.2013

08.	National Level Technical Symposium, “ITECH FEST’ 14, IFET College of Engineering, Villupuram.	Jury	Feb 2014
09.	National Conference, Techcon’ 13, IFET College of Engineering, Villupuram.	Jury	04.04.2014
10.	4 th International Conference on Futuristic Trends in Electronics Engineering, Thiruvalluvar College of Engineering and Technology, Vandavasi.	Invited Speaker	07.03.2015
11.	Second International Conference on Advanced Research in Engineering and Applied Sciences, SRI College of Engineering and Technology, Vandavasi	Speaker for one session	21.03.2015
12.	FDP Program on “Intrusion Detection Systems Virus and Related Threats & Counter Measures”, College of Engineering Guindy, Anna University, Chennai.	Speaker for one session	29.05.2015
13.	Technical Association Guest Lecture, COMPASS’ 14, IFET College of Engineering, Villupuram.	Speaker	21.08.2015
14.	Science & Technology Project Exhibition (GENERIC – 2015), Mailam Engineering College, Mailam.	Jury	17.10.2015
15.	Workshop on “Research methodologies and Solutions”, Arunai Engineering College, Thiruvanamalai	Speaker	12.01.2016

Academic and Other Responsibilities Held

- ✓ Head of the Department Incharge for the Department of Computer Science and Engineering from 2008–till date.
- ✓ Class Advisor and mentor for two batch of students in every academic year.
- ✓ Purchase Committee member for the purchase of hardware equipments for the college and the individual departments.
- ✓ Member of the anti ragging committee for the college.
- ✓ Exam Cell Coordinator (internal examinations) for a period of one year 2012–2013.
- ✓ Appointed as the Chief Superintendent of Anna University Theory examinations for Nov-Dec-Jan 2012 examinations and Apr-May-June 2013 examinations.
- ✓ Youth Red Cross Program Officer
- ✓ Deputy Warden for Girls from 01-06-2015 to till date

Other Technical Responsibilities Held

- ✓ Editorial Board member of OPLTJ Journal
- ✓ PCM member of AIRCC Conferences

Projects & Research Experience

- ✓ UG - 8projects (2013-2014)
Domain of the projects: Data mining techniques, Artificial Intelligence, Natural Language Processing, E-Learning applications.
- ✓ Ph.D. - Currently supervising 04 candidates in the domains of data mining, cloud networks, Artificial Intelligence.

Overseas Experience

Country	Duration of Visit		Purpose of Visit
	From	To	
Ghana, West Africa	26-01-2007	05-05-2008	Work experience in All Nations University
Malaysia	10-11-2011	12-11-2011	Research paper presentation in the International Conference at Malaysia

United States of America	31-10-2015	06-11-2015	Research paper presentation in the International Conference held at New York Institute of Technology, New York
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Thrust Domains

Database, Data Mining, Artificial Intelligence, Natural Language Processing.

References

1. Dr.A.Kannan,M.E,Ph.D.

Professor,

Department of Information Science and Technology,

College of EngineeringGuindy,

Anna University,

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2. Dr.R.Raju, M.E., Ph.D.,

Professor,

Department of Industrial Engineering,

College of Engineering Guindy,

Anna University,Chennai – 600 025.

3. Dr.R.Baskaran,M.E.,Ph.D.,

AssociateProfessor,

DepartmentofComputerScienceandEngineering,

CollegeofEngineeringGuindy,

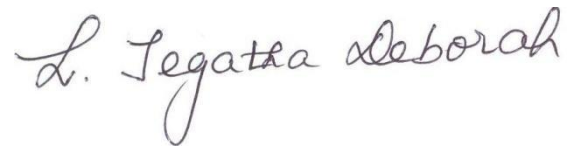
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Declaration

I **L.JEGATHA DEBORAH** working in University College of Engineering Tindivanam, A Constituent College of Anna University Chennai as an Assistant Professor do hereby declare that the information given above is true and correct to the best of my knowledge.

A handwritten signature in black ink that reads "L. Jegatha Deborah". The signature is written in a cursive style with a large initial 'L'.

SIGNATURE

[L.JEGATHADEBORAH]