

National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members

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**Curriculum Vitae**



I, Dr. Rajeswari Sridhar have over 16 years of experience in teaching. My classes are interesting and inspiring for the young minds. I have a B.E in ECE from GCT Coimbatore, MS in CS from City University, WA, USA and Ph.D from Anna University. I have more than 60 publications in various journals and conferences. I am a reviewer for several International journals and conferences.

My objective is to be a successful teacher and researcher in motivating the next generation of students to be responsible, highly adaptive to technology, and help in the growth of the country in terms of economy, culture, and technology.

My aim as a teacher and a researcher is to impart knowledge to the students and make them good researchers, able coders and good samaritans. A teacher takes a hand, opens a mind and touches a heart, goes a general saying. I extend this further by adding, “Set aspirations by inspiring”. I believe in an interactive, activity-based teaching-learning process so that the students are motivated to think and get involved in the subject. Practical problem solving, application of concepts to real-world problems and linking multiple subjects as they progress through the semesters are some of my strategies to get the students get a holistic understanding of the Computer Science and Engineering programme.

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|---|---|
| 1. Name   | <b>RAJESWARI SRIDHAR</b>                          |
| 2. Designation:                                 | ASSOCIATE PROFESSOR                               |
| 3. Office Address:                              | DEPARTMENT OF COMPUTER<br>SCIENCE AND ENGINEERING |
| 4. Telephone (Direct) (Optional):               |   |
| Telephone :                                     | Extn (Optional):                                  |
| Mobile (Optional):                              |   |
| 5. Email (Primary): srajeswari@nitt.edu         | Email (Secondary) :<br>rajisridhar@gmail.com      |
| 6. Field(s) of Specialization: Natural language |   |

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processing, Cloud computing, Big data analytics,  
Compilers, Theory of Computation, Data  
structures and analysis of algorithms

### 7. Employment Profile

Job Title	Employer	From	To
Associate Professor	NIT, Tiruchirappalli	06.06.2018	Now
Assistant Professor	Anna University	01.08.2006	05.06.2018
Visiting Faculty Full Time	Anna University	01.08.2005	31.07.2006
Lecturer	MNM Jain Engineering College	15.12.2003	01.08.2005
Lecturer	Anand Institute of Higher Tech	07.05.2003	12.12.2003
Lecturer	KCG College of Technology	17.06.2002	02.05.2003

### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	Anna University	2012	--	Information and Communication Engineering
M. S.	City University, WA, USA	2002	3.9 / 4.0	Computer Systems
B.E	Government college of Technology, Coimbatore / Bharathiar University	1994	81.6%	Electronics and Communication Engineering
XII	Tamil Nadu State Board	1990	92.5%	Maths, Physics, Chemistry, Biology
X	Tamil Nadu State Board	1988	88.6%	Maths, Science

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
NSS Programme Officer –	Anna University, CEG	27.04.2015	05.06.2018

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Unit 9	Campus		
Member – Inspection Committee	Anna University, CEG Campus	01.07.2013	05.06.2018
Member of the Department Consultative Committee of CSE, CEG Campus	Anna University, CEG Campus	15.12.2014	05.06.2018
Time-table In-charge, CSE Department	Anna University, CEG Campus	03.10.2016	03.10.2017
Additional Chief Superintendent – UG exams	Anna University, CEG Campus	15.12.2014	10.06.2015
Additional Chief Superintendent – PG exams	Anna University, CEG Campus	02.07.2007	07.05.2008

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2002	Presidential Honours	City University, WA, USA
2013	Best paper award	INFITT

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
<b>NIL</b>				

### 13. Details of Academic Work

#### (i) Curriculum Development

- Member of the syllabus sub-committee for UG and PG programmes at Anna University, Chennai
- Member of the syllabus sub-committee of the RUSA programme initiative
- Core member in developing the curriculum and syllabus for the ME- CSE – Specialization in Big data analytics programme
- Member – Automation of lab exercise evaluation

#### (ii) Courses taught at Postgraduate and Undergraduate levels

##### a. Post Graduate

- i. Advanced Data structures and algorithms
- ii. Compiler Optimization
- iii. Security Principles and practices
- iv. Machine learning techniques

##### b. Under Graduate

- i. Theory of Computation
- ii. Compiler Design
- iii. Design and Analysis of Algorithms
- iv. System software

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- v. Digital signal processing
- vi. Data structures

(iii) Projects guided at Postgraduate level

S.No.	Title	Student Name	Year
1.	SaaS by interoperating in a multi-cloud environment	I Saravanan	2018
2.	Personalized Tourism Recommendation from current location using social media and travel websites	R Santhosh kumar	2018
3.	A mobile cloud framework for big data storage and processing	P Prasath	2018
4.	Profiling Diabetes Based on Symptoms, Demographic Information and Gene Interactions	S Aishwarya	2017
5.	Personalized Dynamic Travel Plan Recommendation Using Social Network Profiles	D Ajantha	2017
6.	Flash Crowd Prediction in Online Social Networks	Nitesh Kumar Singh	2017
7.	Unified Framework for Data Management in Multi-Cloud Environment	H Sabireen	2016
8.	Personalized Travel and Tourism Recommendation Using Social Media Profiles	S Kavitha	2016
9.	Cloud Services Ranking - Application to Secure E-Governance as a Service	R Anupriya	2015
10.	Elasticity and Security in an Inter-Cloud Environment	S Kirthica	2014
11.	Muthu Kuviyal - a Tamil Lyric Search System Based on Semantics and Poem Characteristics	K Dakshina	2014
12.	Multi perspective Tagging of Chemical Documents for Entity recognition	S S Deepika	2013

(iv) Other contribution(s)

- Faculty Advisor
- Member of Anti-ragging committee
- Member of Convocation and Graduation programmes

14. Details of Major R&D Projects

Title of Project	Funding	Duration	Status
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	Agency	From	To	Ongoing/ Completed
Big Data Application of AI in Mobile, Datamining, Web IR, IS	UGC	01.04.2013	31.03.2018	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
S. Kirthica	A brokerless framework for efficient resource provisioning facilitating a multi-cloud	Supervisor	2018

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
21.06.2018 to 23.06.2018	Workshop	Local	Participant	NIT, Trichy	Trichy
20.04.2018	Keynote	International	Speaker	RMK Engineering College, Chennai	Chennai

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convener / Co-Convener)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Conference – Data Science Analytics and Applications, DaSAA 2017	International	04.01.2017 to 06.01.2017	Organizing Chair	CEG, Anna University
Faculty Development Programme – Theory of Computation	National	13.05.2017 to 19.05.2017	Coordinator	CEG, Anna University

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Faculty Development Programme – Design and Analysis of Algorithms	National	25.11.2015 to 1.12.2015	Coordinator	CEG, Anna University
Faculty Development Programme – Design and Analysis of Algorithms	National	10.12.2012 to 16.12.2012	Coordinator	CEG, Anna University
Faculty Development Programme – Theory of Computation	National	07.06.2010 to 13.06.2010	Coordinator	CEG, Anna University
Workshop – Cloud Computing – Concepts and Practical Implementation	National	21.03.2017 to 23.03.2017	Coordinator	CEG, Anna University
Workshop – IoT, Cloud and Big Data	National	28.09.2016 to 30.09.2016	Coordinator	CEG, Anna University
Workshop – Application development, deployment and testing on the cloud	National	21.03.2016 to 23.03.2016	Coordinator	CEG, Anna University
Workshop – Cloud Based machine learning algorithms for Big data mining	National	17.02.2015 to 21.02.2015	Coordinator	CEG, Anna University
Workshop – Cloud data – analysis, mining, interoperability and security	National	16.03.2015 to 20.03.2015	Coordinator	CEG, Anna University
Workshop - Cloud Computing - Architecture, Approaches and	National	25.03.2014 to 28.03.2014	Coordinator	CEG, Anna University

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Applications				
Workshop – Advanced concepts in Theoretical Computer Science	National	16.11.2012 to 18.11.2012	Coordinator	CEG, Anna University

18. Invited Talks delivered

Topic	Date	Inviting Organization
Machine learning – supervised algorithms	20.04.2018	RMK Engineering College, Chennai
Machine learning – supervised, Unsupervised and reinforcement learning	23.02.2018, 24.02.2018, 25.02.2018	CEG, Anna University, Chennai
FDP on Design and analysis of algorithms – Asymptotic notation	10.12.2014	GKM College of Engineering and Technology, Chennai
Strategies to improve Teaching – learning process and lab management	06.12.2014	GKM College of Engineering and Technology, Chennai
FDP on Design and analysis of algorithms – Recursive and Iterative algorithm analysis, Asymptotic notation	01.12.2014	Rajalakshmi Institute of Technology, Chennai

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Life member	Computer Society of India	01500893
Annual Member	ACM	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Malaysia	14.08.2013 to 18.08.2013	Paper presentation at INFITT conference

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume	Page	Year	Impact
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			(No.)	numbers		Factor of the Journal (Optional)
Smithamol M.B. and Rajeswari Sridhar	PECS: Privacy enhanced conjunctive search over encrypted data in the cloud supporting parallel search	Computer Communications	126	50 -63	2018	3.38
Smithamol M.B. and Rajeswari Sridhar	TMM: Trust Management Middleware for Cloud Service Selection by Prioritization	Journal of Networks and Systems Management			2018	1.588
S. Kirthica and Rajeswari Sridhar	Securely communicating with an optimal cloud for intelligently enhancing a cloud's elasticity	International Journal of Intelligent Information Technologies	14 (2)	43 - 58	2018	
S. Kirthica and Rajeswari Sridhar	Horizontal scaling and aggregation across heterogeneous clouds for resource provisioning	Computers and Electrical Engineering			2018	1.57
S. Kirthica and Rajeswari Sridhar	CIT: A Cloud Inter-operation Toolkit to enhance elasticity and tolerate shut down of external clouds	Journal of Network and Computer Applications	85 C	32 - 46	2017	3.5
Rajeswari Sridhar, Janani, V., Gowrisankar, R., & Monica, G	Language Relationship Model for Automatic Generation of Tamil Stories from Hints	International Journal of Intelligent Information Technologies	13 (2)	21 - 40	2017	



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Smithamol, M. B., and Rajeswari, Sridhar	Hybrid solution for privacy- preserving access control for healthcare data	Advances in Electrical and Computer Engineering	17 (2)	31 - 39	2017	0.595
Rajeswari Sridhar, Pavithra Sethuraman, and Kashyap Krishnakumar.	English to Tamil machine translation system using universal networking language	<i>Sādhanā</i>	41 (6)	607 - 620	2016	0.465
<b>Rajeswari Sridhar,</b> Jalin Gladis D., Ganga K. and Dhivya Prabha G	Automatic Tamil Lyric Generation Based On Ontological Interpretation for Semantics	<i>Sādhanā</i>	39 (1)	97 - 121	2014	0.465

**(B) Conferences/Workshops/Symposia Proceedings**

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conferenc e Theme	Venue	Year
Smithamol M B and Rajeswari Sridhar	Root Table: Dynamic Indexing Scheme for Access Protection in e-Healthcare Cloud	Proceedings of the International Conference on Next Generation Computing Technologies	pp.211-227	NGCT	Delhi	2018
H. Sabireen S. Kirthica and Rajeswari Sridhar	Secure data archiving using enhanced data retention policies	International Conference on Data Science Analytics and Applications (DaSAA)	pp. 139 – 152	DaSAA	Chennai	2017
S. S. Deepika T. V. Geetha and Rajeswari Sridhar	Multi- perspective and Domain Specific Tagging of Chemical Documents	International Conference on Data Science Analytics and Applications (DaSAA)	pp. 72 – 85	DaSAA	Chennai	2017
Neeharika Immaneni Isha Padmanaban Bagavathy Ramasubramanian and Rajeswari Sridhar	A Meta- Level Hybridizatio n Approach to Personalized Movie	Proceedings of the International Conference on Advances in Computing	pp: 2193 - 2200	ICACCI	Bangalore	2017

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	Recommendation					
Aishwarya Sankar and Rajeswari Sridhar	Gene Interactions and Influences Identification for Diabetes from Bio-Medical Literature	Proceedings of the 6th IEEE International Conference on Communication and Signal Processing	pp. 576 - 582	ICCSP	Chennai	2017
Nitesh kumar singh Om Kumar C.U. Rajeswari Sridhar	Flash Crowd Prediction in Twitter	Proceedings of the IEEE International Conference on Advanced Computing and Communication Systems- (ICACCS)	pp.1490-1495	ICACCS	Delhi	2016
Allen Joseph and Rajeswari Sridhar	Performance Evaluation of Various Classifiers in Emotion Recognition Using Discrete Wavelet Transform, Linear Predictor Coefficients and Formant Features	In Advances in Computational Intelligence: Proceedings of International Conference on Computational Intelligence	pp. 373-382			2017
Rajeswari Sridhar S. R. Surya Dev V. Sankar and K. Sivakumar	Automatic Tamil Lyric Generation based on neuro-linguistics	Proceedings of the International Conference on Informatics and analytics	<a href="http://dx.doi.org/10.1145/2980258.2982128">http://dx.doi.org/10.1145/2980258.2982128</a>			2016
Kavitha S Jobi Vijay and Rajeswari Sridhar	Tourism Recommendation Using Social Media	Advance in Intelligent Systems and Computing	Vol. 517 pp. 243 – 253	ICAIECE S		2017
Rajeswari Sridhar V. Janani Rasiga Gowrishankar and G. Monica	Language Relationship Model for Automatic Generation of Tamil Stories from Hints	International Conference on Computational Methods and Software Engineering	pp. 155 – 168		Chennai	2015
S. Kirthica	eGaas: A	International	pp. 113 – 122		Chennai	2015

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R. Anupriya and Rajeswari Sridhar	Framework to Predict QoS	Conference on Computational Methods and Software Engineering				
U. Aadithya S. Anushya N. Balalakshmi and Rajeswari Sridhar	Post Processing of OCR using language models	International Conference on Computational Methods and Software Engineering	pp. 291 – 300		Chennai	2015
Rajeswari Sridhar Nivaedha Dharmaraj Janani Damodaran Srividhya Sampath	Automatic Tamil lyric generation based on image sequence and derived tune	IEEE International Advanced Computing Conference	pp: 861-866		Bangalore	2015
Rajeswari Sridhar Aravind S Hamid Muneerulhudhakaalvalhi and Sibi Senthur	A Hybrid approach for discourse segment detection in the automatic subtitle generation OF COMPUTER SCIENCE LECTURE VIDEOS	International Conference on Advances in Computing	pp: 284 - 287		Mysore	2014
Rajeswari Sridhar and Jayavasanth R	Tamil Wordnet based on hybrid Approach	13th International Tamil Internet Conference	pp: 120 - 124		Pondicherry	2014
Rajeswari Sridhar Sugadev C Mani Murugesan P Vignesh N T	A hybrid approach to Tamil Morphological Generation	13th International Tamil Internet Conference	pp: 101 - 105		Pondicherry	2014
Subasree Venkatsubramanien Subha Rashmi and Rajeswari Sridhar	CLASSIFICATION OF TAMIL POETRY USING CONTEXT FREE GRAMMAR USING	Third International Conference on Computer Science & Information Technology (CCSIT 2013)	Vol.3, No. 6, pp: 159 - 167		Bangalore	2013

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	TAMIL GRAMMAR RULES					
Rajeswari Sridhar Madhavan K V Nagarajan S Nishanth S	INCREMENTAL LANGUAGE MODEL AND DYNAMIC DECODER FOR TAMIL CHAT SYSTEM	International Conference on Advances in Computing	pp: 2057 - 2062		Mysore	2013
Rajeswari Sridhar Remitha Rathi L Rithya P Nivrutha P	Use of Tamil Grammar Rules for Correcting Errors in Optical Character Recognized Document	12th International Tamil Internet Conference	pp: 165 - 173		Malaysia	2013
Rajeswari Sridhar Janani V Rasiga G Monica G	Development of Hints in Tamil using the Techniques of Natural Language Generation	12th International Tamil Internet Conference	pp: 112 - 116		Malaysia	2013
Rajeswari Sridhar Rajkiran R Narendra kumar N J Giridhar M	Recognition of Kalippa Class of Tamil Poetry	12th International Tamil Internet Conference	pp: 22 - 27		Malaysia	2013
Rajeswari Sridhar Suganya A. and Geetha T V	Music Information Retrieval of Tamil Film Music Using Melody and Similarity Measures	Indian International Conference on Artificial Intelligence	pp. 589 - 602		Bangalore	2009
Rajeswari Sridhar and Geetha T V	Music Information retrieval of Carnatic songs based on Singer Identification	IEEE International Conference on Computer and Electrical Engineering	pp. 407 - 411		Thailand	2008
Rajeswari Sridhar and	Swara	IEEE conference	pp. 143 - 144		Bhubanes	2006

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Geetha T V	identification of South Indian Classical Music	on IT			hwar	
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(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
<b>NIL</b>				