

# Dr. Smitha Rao Suresh Marpally

Professor

School of Computational and Data Sciences

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## Summary

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- Profile: Female, 49, Married
- Nationality: Indian
- Current Location: Bangalore, India
- Total Years of Experience: 26 Years
- Highest Educational Qualification: Doctor of Philosophy (Ph.D.)
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## Education

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### ***Doctor of Philosophy (Ph.D.)***

Bharati Vidyapeeth University, Pune, India

Awarding Year: 2012

### ***Master of Computer Application (M.C.A)***

Osmania University, Hyderabad, India

Academic Batch: 1993-1996

First Class with Distinction (College Topper)

### ***Bachelor of Science (BSc.)***

Osmania University, Hyderabad, India

Specialization: Computer Science, Statistics, Mathematics

Academic Batch: 1990-1993

First Class with Distinction (College Topper)

## Employment History

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<b>2021-Present</b>	Vidyashilp University
Position	<b>Professor</b>
Department	School of Computational and Data Sciences
<b>2019- 2021</b>	Presidency University
Position	<b>Professor and Program Chair</b>
Department	Computer Science Engineering
<b>2017-2019</b>	CMR University
Position	<b>Professor and Head of Department</b>
Department	Computer Science Engineering and Information Technology
<b>2014 – 2017</b>	Dayananda Sagar College, Bangalore, India
University	Bangalore University
Position	<b>Director, Professor</b>
Department	Post-Graduation & Graduation in Computer Science
<b>2010 – 2014</b>	Reva Institute of Technology & Management, Bangalore, India
University	Visvesvaraya Technological University (VTU), Karnataka, India
Position	<b>Professor</b>
Department	Post-Graduation in Computer Science (MCA)
<b>2007 – 2010</b>	MECIT, Oman
University	Affiliated to Coventry University, UK
Position	<b>Senior Lecturer &amp; Programme Co-ordinator</b>
Department	Department of Computer Science
<b>2006 – 2007</b>	Higher College of Technology(HCT), Muscat, Oman
University	Ministry of Manpower, Oman
Position	<b>Senior Lecturer</b>
Department	Department of Computer Science
<b>2004 – 2006</b>	Bharati Vidyapeeth's Institute of Management & Information Technology, Navi Mumbai, India
University	Mumbai University
Position	<b>Head of Department, Assistant Professor</b>
Department	Post-Graduation in Computer Science (MCA)
<b>1999 – 2004</b>	Institute for Technology & Management, Mumbai, India
Position	<b>Lecturer (Visiting Faculty)</b>
Department	Master of Business Administration (MBA)

## Courses handled– Online and Offline

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AI & ML	Natural Language Processing
	Deep Learning
	Machine Learning
	Probabilistic Graph Models
	Data Visualization
	Artificial Intelligence
	Exploratory Data Analysis
	Programming with Python, R

## Research Interests

Deep Learning	Machine Learning	Natural Language Processing
Model Optimization	Auto ML	Bayesian Learning

## Publications in International Journals

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Smitha Rao M.S, Jyothsna A.N and Pinaka Pani.R, “*Digital Watermarking: Applications, Techniques and Attacks*”, International Journal of Computer Applications”, ISSN: 0975-8887, vol. 7, pp. 29-34, April 2012, Published by Foundation of Computer Science, New York, USA. doi: 10.5120/6277-8442 (Impact Factor: 0.715)

Smitha Rao, Jyothsna.A.N, “*BDI: Applications and Architectures*”, International Journal of Engineering Research & Technology, ISSN: 2278-0181, vol. 2(2), pp. 1-5, February 2013, (Impact Factor: 1.76)

Smitha Rao, “*Evaluation of Lossless Watermarking Techniques*”, International Journal of Computer Trends and Technology, ISSN: 2231-2803, ICID: 1052681, vol. 4(4), pp. 467-471, April 2013, (Impact Factor: 2.517)

Smitha Rao M.S, Jyothsna A.N, “*BDI Approach To Build An Agent Based System*”, International Journal of Scientific and Engineering Research, ISSN: 2229-5518, vol. 6(1), pp. 1230-1232, January 2015, (Impact Factor: 3.2)

Smitha Rao M.S, T. Kohila Kanagalakshmi, “*Structuring Unstructured Big Data*”, International Journal of Current Research, ISSN: 0975-833X, vol.7(3), March 2015 (Impact Factor:3.84)

Smitha Rao, Suman Roy, “*Transfer Learning Approach To Optimized Deep Learning*”, International Journal of Research and Analytical Reviews , E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.5, Issue 3, Page No pp.416-421, September-2018 (Impact factor: 5.75)

Bharath, Smitha Rao MS, "*Design And Implementation Of Standard Chatbots*", International Journal of Research and Analytical Reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.5, Issue 3, Page No pp.406-411, September-2018(Impact factor: 5.75)

Arnold Sachith A Hans and Smitha Rao, "*Analysis Of AI Based Face Detection Techniques*", Journal of Engineering Sciences, ISSN NO:0377-9254, Vol 10, Issue 12, pp 815 – 821, DEC 2019 (Scientific Journal Impact Factor - 6.54)

Saahil Afaq, Dr. Smitha Rao,"*Significance of epochs on Training a Neural Network*", International Journal Of Scientific & Technology Research, ISSN 2277-8616, vol. 9, Issue 06, pp. 485- 488, Jun 2020 ((Scopus Indexed Q3)

Subhadeep Guchhait, Dr. Smitha Rao, "*Analyzing the Impact of Mini-Batch Size in Optimizing the performance of Deep Neural Networks* ", IJAST, ISSN 22076360 vol. 29, no. 05, pp. 13074-13081, Jun. 2020.(Scopus Indexed Q4)

Mitali Halder,Smitha Rao, "*RNN Power to incorporate Discourse in Natural Language Generation*", Journal of Technology ISSN No: 1012-3407 Volume: 35, Issue: 03,pp. 180-185, Sep 2020. (Scopus Indexed Q4)

## **International Conference Presentations**

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Smitha Rao, Nagesh Poojary, J.F.Thomas, "*Technology Assisted Contextualized Collaborative Learning Environment (TACCLE)*", Learning International Networks Consortium (LINC), **MIT, Cambridge, USA**, May 2010

Smitha Rao, Pratima Bhat, "*Evaluation of Lossless Compression Techniques*", 4<sup>th</sup> **IEEE** International Conference on Communication and Signal Processing-ICCSP'15, ISBN 978-1-4799-8080-2, **IEEE Xplore**, Melmaruvathur, **Tamilnadu**, India, April 2-4, 2015

Smitha Rao, Suma S.N and Sunitha M, "*Security Solutions For Big Data Analytics In Healthcare*",2<sup>nd</sup> **IEEE** International Conference on Advances in Computing And Communication Engineering, ICACCE 2015, Tula's Institute, **Dehradun**, Uttarakand, India, May 2015 (published in **IEEE Xplore**)

Smitha Rao, Srivatsala V, Suneetha V, "*Optimizing Technical Eco-System of Digital Marketing*", Joint International Conference on Communication, Computing and Power Technologies – ICCCP 2015 Artificial Intelligence and Evolutionary Computation in Engineering Systems – ICAIECES 2015, **Springer AISC Series**, **Chennai**, India April 2015

Smitha Rao, Sunitha, "*Privacy and Security of Big Data*", International Conference on Innovative Practices in Business and Information Technology, ISBN: 978-1-63452-307-3,Adarsh Institute of Management and Information Technology, **Bangalore**, India, December 15-16, 2014.

Smitha Rao, T. Kohila Kanagalakshmi, Ramya. B, "*Bitcoin: First Virtual Currency*", International Conference on Information Science and Technology for Sustainability and

Innovation”, ICISTSI’15 , Jain University, Bangalore, India, May 22-23, 2015. (Presented, and will be published by **RPS, Singapore**)

Smitha Rao M S, Pallavi M and Geetha N, “*Conceptual Machine Learning Framework for Initial Data Analysis*”, Second International Research Symposium on Computing and Network Sustainability (IRSCNS 2018), **Springer** LNNS Series. ISSN: 2367-3370, Goa, India, August 30-31, 2018

Mitali Halder, Dr. Smitha Rao M Suresh, “*Impact of Discourse in Modern AI based NLP Applications*”, Test Engineering and Management, ISSN: 0193-4120, Vol. 83, pp 94-101, May 2020 (Scopus Indexed Q4)

Teena KB, Dr. Smitha M. Rao, “*A Review on Deep Learning Approaches to Real Time Network Intrusion Detection System*”, Test Engineering and Management, ISSN: 0193-4120, Vol. 83, pp. 205 – 216, May 2020 (Scopus Indexed Q4)

Teena KB, Dr. Smitha M. Rao, “*Bidirectional Based LSTM RNN for Detecting DDOS Flooding Attack*” , International conference on Multidisciplinary Technologies & Challenges in Industry 4.0, Sep 2020, (Awaiting publication in SCOPUS indexed Journal : BJIT- International Journal of Information Technology, Published by Springer Nature, ISSN 2511-2104)

Bansal, M., Hans, A.S.A., Rao, S., Lakkavalli, V. (2022). “*A Hybrid Approach for Deep Noise Suppression Using Deep Neural Networks*”, Evolutionary Computing and Mobile Sustainable Networks. Lecture Notes on Data Engineering and Communications Technologies, vol 116. Springer, Singapore. [https://doi.org/10.1007/978-981-16-9605-3\\_5](https://doi.org/10.1007/978-981-16-9605-3_5) (Scopus Indexed)

## Current Projects / Research

Company	Project
Evue Technologies <a href="https://www.evume.ai/">https://www.evume.ai/</a>	Building a Hybrid Machine Learning Framework to auto rate candidate skills & attitude from recorded videos and rank them on employable competencies
Kaizen Secure Voiz <a href="https://kaizenvoiz.com/">https://kaizenvoiz.com/</a>	Voice Analytic based Solutions using Deep Learning and Natural Language Processing (NLP)

## Achievements

- National Winners in the EVUEME - WAIN Innovation Challenge, Winning cash award. (July 2020)- Working with industry in nascent technologies in area of Machine Learning
- Published 22 papers in reputed peer reviewed international journals and conference presentations including MIT LINC, Springer and IEEE.
- Delivering Guest Lectures and webinars in current areas of AI and ML
- Session chair in various national and international conferences.
- Member of Research Advisory Committee of PhD Scholars in the domain of AI&ML