

Curriculum Vitae

Dr. R. Suguna



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Educational Profile

June 2006 – Dec 2011 : **Ph.D in Computer Science & Engineering,**
Anna University, Chennai – 25.

June 2002 – April 2004 :**M.Tech in Computer Science & Engineering,**
Indian Institute of Technology, Madras
Chennai
CGPA :8.54

June 1985 – April 1989 :**B.E. in Computer Engineering**
Thiagarajar College of Engineering,
Madurai Kamaraj University
Percentage of Marks : 77% First Class

Work Experience: 27 Years

From	To	Organisation	Position
May 2017	Till Date	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai	Professor
Nov 2011	May 2017	SKR Engineering College, Poonamallee, Chennai - 123	Professor and Dean
June 2008	Oct 2011	St. Peter's Engineering College, Avadi, Chennai-54.	Professor
June 2004	May 2008	M.N.M.Jain Engineering College Chennai - 97	HOD and Professor Acad& Admin.
July 2001	June 2004	Sri Ram Engineering College, Perumalpattu, Chennai	Assistant Professor & HOD
July 2000	July 2001	K.L.N.College of Engineering Madurai	Lecturer
July 1998	June 2000	Sourashtra College Madurai	Lecturer
Feb 1992	May 1998	Hi-Tec Computers Madurai	Software Engineer
July 1989	Apr 1991	R.V.S.College of Engineering Dindigul	Lecturer

Certifications

- Completed ISRO Online Certificate course on "Remote Sensing and Digital Image Analysis" conducted by ISRO, National Remote Sensing Centre, New Delhi during **17-08-2020 to 11-09-2020**.
- Completed ISRO Online Certificate course on "Remote Sensing Applications in Agricultural Water Management" conducted by ISRO, National Remote Sensing Centre, New Delhi during **03-08-2020 to 07-08-2020**
- Completed ISRO Online Certificate course on "Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials" conducted by ISRO, National Remote Sensing Centre, New Delhi during 8th – 1st July 2020
- Completed online course on "Introduction to Augmented Reality and ARCore" authorized by Google AR & VR and offered through Coursera 2020
- Completed "The Data Scientist's Toolbox" an online course authorized by Johns Hopkins University and offered through Coursera 2020
- Completed "Neural Networks and Deep Learning" an online course authorized by deeplearning.ai and offered through Coursera 2020
- Completed "Convolutional Neural Networks" an online course authorized by deeplearning.ai and offered through Coursera 2020
- Completed "Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization" an online course authorized by deeplearning.ai and offered through Coursera 2020
- ELITE + GOLD Certification on Introduction to Remote Sensing Course.
- ELITE + SILVER Certification on Introduction to Data Science for Engineers Course.
- ELITE Certification on Introduction to Machine Learning Course.
- ELITE Certification on Design and Pedagogy of the Introductory Programming Course.

Achievements and Responsibilities

- Reviewer in International Journal of Cloud Computing, Inderscience Publisher
- Reviewer in "Pervasive and Mobile Computing" Elsevier Publication
- Reviewed chapters in "Machine Learning" book requested by Oxford University Press
- Conducted Two Days Faculty Development Programme on "**Machine Learning and Tools**" at Sapthagiri College of Engineering, Bangalore on 30-31 January, 2019
- **Recognized** Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology **Supervisor** for Research
- **DC member** for scholars at Anna University, St. Peter's University and Satyabama University
- **Coordinator** for IcA Induction cum Acquaintance Programme for 2017-18, 2018-19.
- **Technical Session Chair** for National Conference on Emerging Computing Technologies and Applications 2019 (NCECTA 2019) on March 29 th - 30 th 2019 at

Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Avadi, Chennai.

- **Auditor** for Internal Academic Audit for ECE Department, Vel Tech Rangarajan Dr.Sagunthala R & D Institute of Science and Technology, Avadi, Chennai.
- **Program Technical Committee member** for National Conference on Emerging Computing Technologies and Applications 2018 (NCECTA 2018) on April 5 th - 6 th 2018 at Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Avadi, Chennai.
- **Member of Board of Studies** at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
- **Member of Academic Council**, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
- **Dean and Head**, Department of CSE at SKR Engineering College
- **Recognized Anna University Supervisor** for Research
- **Supervisor** for Anna University Research scholars
- **DC member** for scholars at St. Peter's University
- **IEEE Member**
- **CSI Member**

Book Publication

Authored a book titled "**Grid and Cloud Computing**" for VII Sem CSE/IT Students, **Anna Regulation 2013**, Sri Krishna Publications, Chennai.

Paper Publications

1. Suguna, R., Asmetha Jeyarani, R., Rupavathy, N. "Efficiently analyzing the performance of predictive models for diabetes mellitus diagnosis" Journal of Green Engineering, 10(10), pp. 9691–9707, 2020.
2. J. Suriya Prakash, R. Suguna, and S. Palanivel Rajan, "Analyzing the Behavior of Multiple Dimensionality Reduction Algorithms to Obtain Better Accuracy using KDD CUP Dataset. SYLWAN, 164(6), 222–242.," SYLWAN, vol. 164, no. 6, pp. 222–242, 2020.
3. P. S. Neethu, R. Suguna, and D. Sathish, "An efficient method for human hand gesture detection and recognition using deep learning convolutional neural networks," Soft Comput., 2020, doi: 10.1007/s00500-020-04860-5.
4. R. Suguna, M. Shyamala Devi, R. A. Bagate, and A. S. Joshi, "Assessment of feature selection for student academic performance through machine learning classification," J. Stat. Manag. Syst., vol. 22, no. 4, pp. 729–739, 2019, doi: 10.1080/09720510.2019.1609729.
5. R. Suguna, M. Shyamala Devi, and R. M. Mathew, "Integrating ensembling schemes with classification for customer group prediction using machine learning," Int. J. Eng. Adv. Technol., vol. 8, no. 6, pp. 957–961, 2019, doi: 10.35940/ijeat.F8256.088619.

6. R. Suguna, M. S. Devi, and R. M. Mathew, "Customer segment prognostic system by machine learning using principal component and linear discriminant analysis," *Int. J. Recent Technol. Eng.*, vol. 8, no. 2, pp. 6198–6203, 2019, doi: 10.35940/ijrte.B2290.078219.
7. P. K. Padigela and R. Suguna, "A survey on analysis of user behavior on digital market by mining clickstream data," *Adv. Intell. Syst. Comput.*, vol. 1090, pp. 535–545, 2020, doi: 10.1007/978-981-15-1480-7_45.
8. R. A. Bagate and R. Suguna, "Different Approaches in Sarcasm Detection: A Survey," *Lect. Notes Data Eng. Commun. Technol.*, vol. 38, pp. 425–433, 2020, doi: 10.1007/978-3-030-34080-3_48.
9. Shyamala Devi, M.; Suguna, R.; Lbungdim, Paul K.; Kondapalli, Sairam; Ambashta, Satwat Kumar; Akhil, Duggishetti, "Systematic Image Zooming and Panning of Graphical Images Using Fractional Replication", *Journal of Computational and Theoretical Nanoscience*, Vol. 17(1), pp. 519-525, Jan 2020.
10. R. M. Mathew, R. Suguna, and M. Shyamala Devi, "Composite model fabrication of classification with transformed target regressor for customer segmentation using machine learning," *Int. J. Eng. Adv. Technol.*, vol. 8, no. 6, pp. 962–966, 2019, doi: 10.35940/ijeat.F8257.088619.
11. M. Shyamala Devi, R. M. Mathew, and R. Suguna, "Feature snatching and performance assessment for connoting the admittance likelihood of student using principal component reduction," *Int. J. Recent Technol. Eng.*, vol. 8, no. 2, pp. 4800–4807, 2019, doi: 10.35940/ijrte.B2286.078219.
12. R. M. Mathew, R. Suguna, and M. Shyamala Devi, "Assimilation of blockchain for augmenting the security and coziness in IoT based smart home," *Int. J. Recent Technol. Eng.*, vol. 8, no. 2, pp. 2274–2279, 2019, doi: 10.3940/ijrte.B2511.078219.
13. M. Shyamala Devi, R. M. Mathew, and R. Suguna, "Regressor fitting of feature importance for customer segment prediction with ensembling schemes using machine learning," *Int. J. Eng. Adv. Technol.*, vol. 8, no. 6, pp. 952–956, 2019, doi: 10.35940/ijeat.F8255.088619.
14. Y. Praveen Kumar, R. Suguna, S. Ghosh, and K. Neha, "Semantic web mining in retail management system using ANN," *Int. J. Recent Technol. Eng.*, vol. 8, no. 2 Special Issue 11, pp. 3547–3554, 2019, doi: 10.35940/ijrte.B1439.0982S1119.
15. Shyamala Devi Munisamy, Suguna Ramadass Aparna Joshi, "Cultivar Prediction of Target Consumer Class using Feature Selection with Machine Learning Classification", *LAIS 3*, pp. 604–612, 2020, doi: 10.1007/978-3-030-24322-7_72.
16. Suguna Ramadass, Shyamala Devi Munisamy, Praveen Kumar P, Naresh P, "Prediction of Customer Attrition using Feature Extraction Techniques and its Performance Assessment through dissimilar Classifiers", *LAIS 3*, pp. 613–620, 2020. https://doi.org/10.1007/978-3-030-24322-7_73
17. Praveenkumar Y and Suguna R " Review of Semantic Web Mining in Retail Management System using Artificial Neural Network" *LAIS 3*, pp. 537–549, 2020. Doi: 10.1007/978-3-030-24322-7_65

18. Suguna Ramadass, Shyamala Devi Munisamy, Praveen Kumar P, Naresh P, "Prediction of Customer Attrition using Feature Extraction Techniques and its Performance Assessment through dissimilar Classifiers", Springer's book series entitled "Learning and Analytics in Intelligent Systems, Springer, 2019. (Accepted for Publication)
19. Suguna R, Shyamala Devi M; Image Preprocessing and Its Applications in Computer Vision, Journal of Computational and Theoretical Nanoscience, Volume 15, Numbers 11-12, November 2018, pp. 3381-3388(8). <https://doi.org/10.1166/jctn.2018.7630>. (Scopus Indexed)
20. Suguna R, Shyamala Devi M, Akash kushwaha, Pooja "An Efficient Real Time Product Recommendation using Facial Sentiment Analysis", Third IEEE International Conference on Electrical, Computer and Communication Technologies IEEE ICECCT 2019, SVS College of Engineering, Coimbatore, 20-22 February 2019. IEEEExplore. (Accepted for Publication)
21. Shyamala Devi M, Suguna R, P.M.Abhinaya. "Integration of Blockchain and IoT in Satellite Monitoring Process", Third IEEE International Conference on Electrical, Computer and Communication Technologies IEEE ICECCT 2019, SVS College of Engineering, Coimbatore, 20-22 February 2019, IEEEExplore. (Accepted for Publication)
22. Thanjaivadivel, Suguna R, "Metaclassifiers for Predicting the Robotic Navigation Performance", International Journal of Innovative Technology and Exploring Engineering, vol 8, No 6, April 2019.
23. Shyamala Devi Munisamy, Suguna Ramadass Aparna Joshi, "Cultivar Prediction of Target Consumer Class using Feature Selection with Machine Learning Classification", Springer's book series entitled "Learning and Analytics in Intelligent Systems, Springer, 2019. (Accepted for Publication)
24. M. Shyamala Devi, R.Suguna, Aparna Shashikant Joshi, Rupali Amit Bagate, "Design of IoT Blockchain Based Smart Agriculture for Enlightening Safety and Security", Springer CCIS Series, Communications in Computer and Information Science, 2019. (Accepted for Publication)
25. Zakir M. Shaikh, Suguna R, "Implementation of Advanced Encryption Algorithm for USB Mass Storage Devices Using C#", Journal of Computational and Theoretical Nanoscience, Volume 15, Numbers 11-12, November 2018, pp. 3432-3435.
26. Shyamala Devi M, Suguna R, Dynamic Abandoned Object Detector Through Camera Surveillance System, Journal of Computational and Theoretical Nanoscience, Volume 15, Numbers 11-12, November 2018, pp. 3405-3411(7). <https://doi.org/10.1166/jctn.2018.7633>. (Scopus Indexed)
27. Shyamala Devi M, B. Mysura Reddy, R Suguna, V. Anusha Lakshmi, "Performance Analysis and a Review on Search Engines with Its Optimization ", Journal of Computational and Theoretical Nanoscience, Volume 15, Numbers 11-12, November 2018, pp. 3418-3423, <https://doi.org/10.1166/jctn.2018.7635>. (Scopus Indexed)

28. Rupali Amit Bagate, R.Suguna, "Sarcasm Detection on Social Media using Sentiment Analysis ", National Conference on Emerging Computing Technologies and Applications (NCECTA2018), 5th and 6th April 2018.
29. Swathi Singh, Suguna R, DivyaSatish, and Ranjith Kumar MV "Survey on Surging Technology: Cryptocurrency", International Journal of Engineering & Technology, Vol. 7 (3.12) pp. 296-299, 2018.
30. Suguna R and Meena K, "Smooth Optimization Technique for Denoising Image", International Journal of Engineering & Technology, Vol. 7 (2.31)pp. 225-227, 2018.
31. SuriyaPrakash J, Suguna R and DivyaSathish "Suspicious Flow Detection and Traffic Classification in Network Environment", TAGA JOURNAL, Vol. 14, pp. 1420-1430, 2018.
32. Neethu P S, Suguna R and DivyaSathish "Real Time Hand Gesture Recognition System", TAGA JOURNAL, Vol. 14, pp. 782-792, 2018.
33. Suguna R and Suriya Prakash J "A Survey on Network Traffic Classification Techniques", International Journal of Pure and Applied Mathematics, Vol. 117 No. 8pp. 51-54, 2017.
34. Suguna R and Neethu P S "Hand Gesture Recognition using Shape Features", International Journal of Pure and Applied Mathematics, Vol. 117 No. 8pp. 51-54, 2017.
35. Balaji Vijayan V, Neduncheliyan S and **Suguna R** "A Review on Routing Protocols of Underwater Wireless Sensor Networks", International Journal of Computer Science and Information Security, Vol. 14, pp. 28-33, 2016.
36. Neethu P.S and **Suguna R**, "A Survey on hand gesture recognition system" International Journal of Engineering Trends in Computer Science and Electronics, Vol. 21(3) pp. 99-104, 2016.
37. Karthik V and **Suguna R** "Obstacle Detection for Visually Impaired people using Smartphones" in International Journal of Emerging Technology in Computer Science and Electronics, Vol.13 (1), pp. 530-535, 2015

Personal Information

Nationality	:	Indian
Age	:	52 years
Gender	:	Female
Date of Birth	:	16 - 04 -1968
Husband's Name	:	Premkumar. V
Marital Status	:	Married

Reference : **Dr. P. Anandhakumar**
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Declaration

I Suguna R, hereby declare that the information furnished above is true to the best of my knowledge.

R. Suguna