



RESEARCH SUPERVISOR DETAILS

NAME (CAPITAL LETTERS) Dr. J. JESU VEDHA NAYAH  
DESIGNATION Senior Assistant Professor  
DEPARTMENT Computer Science and Engineering  
MAIL ID [vedhaj2000@gmail.com](mailto:vedhaj2000@gmail.com)  
[jesuvedhanayahi.j@auttv.ac.in](mailto:jesuvedhanayahi.j@auttv.ac.in)  
FACULTY Information and Communication Engineering  
SUPERVISOR REG. NO 2940047



TOTAL .NO.OF RESEARCH SCHOLAR (ONGOING):

REGISTER NUMBER (FULL TIME)	NAME OF THE SCHOLAR
18224891365	Ms. B. Akila
20254891200	Ms. C. M. Naga Sudha

REGISTER NUMBER (PART TIME)	NAME OF THE SCHOLAR
18244897134	Ms. P. Subashree Kasi Thangam
23244891255	Ms. B. Sinthya

RESEARCH SCHOLARS (COMPLETED):

REGISTER NUMBER(FT/PT)	NAME OF THE SCHOLAR
1524489896	Dr. Suja A Alex
17244897268	Dr. L. Josephine Usha



PUBLICATIONS OF THE SUPERVISOR:

1. L. Josephine Usha, **J. Jesu Vedha Nayahi**, Thampiraj Rittammal, J.B, “Parallel Fuzzy C-Means Clustering Based Big Data Anonymization Using Hadoop MapReduce”, Wireless Personal Communication, <https://doi.org/10.1007/s11277-024-11101-7>, 2024, **Impact Factor : 2.2.**
2. Suja A Alex, **J. Jesu Vedha Nayahi**, Sanaa Kadduora, “Deep convolutional neural networks with genetic algorithm-based synthetic minority over-sampling technique for improved imbalanced data classification”, Applied Soft Computing, Vol. 156, 2024, **Impact Factor: 8.7.**
3. B. Akila, **J. Jesu Vedha Nayahi**, “Parkinson classification neural network with mass algorithm for processing speech signals”, Neural Computing and Applications, 2024, **Impact Factor : 6.**
4. Naga Sudha C M, **Jesu Vedha Nayhai J**, “TrackChain: Hyperledger based pharmaceutical supply chain – Resource utilization perspective”, Heliyon, <https://doi.org/10.1016/j.heliyon.2023.e23250> , 2024, **Impact Factor : 4.4**
5. SA Alex, **J. Jesu Vedha Nayahi**, “Classification of Imbalanced Data using SMOTE and AutoEncoder based Deep Convolutional Neural Network”, International Journal of Uncertainty, Fuzziness and Knowledge-based Systems, Vol. 31, No. 3, pp. 437-469, 2023. **Impact Factor: 1.518**
6. SA Alex, **J. Jesu Vedha Nayahi**, H Shine, V Gopirekha, “Deep convolutional neural network for diabetes mellitus prediction”, Neural Computing and Applications, Vol. 34, No. 2, pp. 1319-1327, 2022. **Impact Factor: 6.**
7. J Usha Lawrance, **J. Jesu Vedha Nayahi**, “Privacy Preserving Parallel Clustering Based Anonymization for Big Data Using MapReduce Framework”, Applied Artificial Intelligence, pp. 1-34, 2021. **Impact Factor: 2.8**
8. Roshni, Thendiyath, **J. Jesu Vedha Nayahi**, Jha, Madan K. Nehar, Mandal, Sourav, Choudhary, Wable, Pawan S., “Clustering of Groundwater Wells and Spatial Variation of Groundwater Recharge in Sina Basin, India”, Asian Journal of Water Environment and pollution, Vol. 17, No. 4, pp. 11-21, 2020. **Impact Factor. 0.5.**
9. **J. Jesu Vedha Nayahi**, V. Kavitha, “Privacy and Utility Preserving Data Clustering for Data Anonymization and Distribution on Hadoop”, Future Generation Computer Systems, Vol. 74, pp. 393-408, 2016. **Impact Factor: 7.5**
10. **J. Jesu Vedha Nayahi**, V. Kavitha, "An efficient clustering for anonymizing data and protecting sensitive labels" International Journal of Uncertainty Fuzziness and Knowledge-based system, Vol.23(5),pp. 685-714, 2015. **Impact Factor: 1.518**
11. Suja A.Alex, **J.Jesu Vedha Nayahi**, “Deep Incremental Learning for Big Data Stream Analytics”, Proceedings of the International Conference on Computer Networks, Big data, and IoT published in Lecture Notes on Data Engineering and Communication Technologies, Vol. 31, pp. 600-614, August, 2019.
12. Syed Ali Fathima Aasia. P, Gokulakrishnan. K, **Jesu Vedha Nayahi. J**, “Supervised Learning Approach for Performance Evaluation of Digital Fundus Image Quality”, International Journal of Scientific Engineering and Research, Vol 3, No. 5, May, 2015.



13. S. Merlin and **J. Jesu Vedha Nayhai**, "Privacy Preserving Distributed Classification using C4.5 Decision Tree", International Journal of Innovative Research in Computer and Communication Engineering, Vol.2 Special Issue. 3, April 2015.
14. Gopika Rani G.U., **J. Jesu Vedha Nayahi**, "Review of Cancer Subtype Prediction: Progress and Challenges", in International Journal of Computer Science and Mobile Computing, 180-190, 2013.
15. P. Anuja, K. Gokulakrishnan, **J. Jesu Vedha Nayahi**, "A Hybrid Solution for Resource Discovery problem in Grid Networks", International Journal of Scientific & Engineering Research, Vol. 3, No 7, July 2012.
16. Deivanai, **J. Jesu Vedha Nayahi**, V.Kavitha, "An Efficient Privacy Preserving Classification Tree Technique in k-anonymity for secure Data Mining and Data Publishing", CiiT International Journal of Data Mining and Knowledge Engineering, Vol.3, No. 7, May 2011.
17. M. Alamelu Mangai, **J. Jesu Vedha Nayahi**, "An Effective Algorithm for Data Privacy in Distributed Environment Using Wavelets", CiiT International Journal of Data Mining and Knowledge Engineering, April 2010.
18. C. Gopalakrishnan, V. Kavitha, **J. Jesu Vedha Nayahi**, "Reducing Latency by Providing Location Based Services Using Hybrid Cache in Adhoc Networks", International Journal of Advanced Networking and Applications, Vol. 2, No. 1, 428-436, 2010.
19. C. M. Naga Sudha, **J. Jesu Vedha Nayahi**, S. Saravanan, B. Jayagokulakrishna, "Smart Living: Safe and Secure Smart Home with Enhanced Authentication Scheme", AICTE sponsored International Conference on Intelligent Computing, Communication and Information Security, held at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, 25-26 November 2022.
20. C. M. Naga Sudha, **J. Jesu Vedha Nayahi**, S. Saravanan, Subish Daniel, , "Smart Office: Happy Employees in Enhanced and Energy Efficient (EEE) Workplace", AICTE sponsored International Conference on Intelligent Computing, Communication and Information Security, held at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, 25-26 November 2022.
21. Naga Sudha C M, Saravanan S, **Jesu Vedha Nayahi J**, Sankar S, Ajantha S.V and Dr. Prakash S "INDUSTRY 4.0: Novel Approach to Dwindle the Population Bestrew of COVID-19 Through IoT Point-of-mCare SHAD App", International Conference on Robotics, Automation and Non-Destructive Evaluation 2022.
22. Suja A Alex, **J Jesu Vedha Nayahi**, "Building Online Classification Data for IoT data", Virtual International Transdisciplinary Conference (VITC-2020)
23. B. Akila and **J. Jesu Vedha Nayahi**, presented a paper titled "A review on voice based prediction of Parkinson Disease", in the 2<sup>nd</sup> International Conference on New Scientific Creations in Engineering and Technology, 2020 on 14.03.2020.
24. Suja A.Alex, **J.Jesu Vedha Nayahi**, participated and presented a paper in "Deep Incremental Learning for Big Data Stream Analytics", in the Springer International Conference on Computer Networks, Big Data and IoT, ICCBI2018.
25. Bency, **J Jesu Vedha Nayahi**, participated and presented a paper in "An Extensive study on IRIS recognition using IRIS images" in the International Conference on Wireless Smart System Technologies (WiSST'17) from 05-07 January 2017.



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26. Benita Nancy. G, **Jesu Vedha Nayahi. J**, “Bidirectional Bidding for Efficient Allocation of Multiple Resources in Clouds”, International Conference on Recent Trends in Information Technology, April 2016.
  27. Aarathi, **Jesu Vedha Nayahi J** “Glaucoma detection based on optic disc and optic cup segmentation from fundus photographs – A Survey”, in IEEE International Conference on Computing Technologies and Intelligent data Engineering, in National Engineering college, 2016.
  28. Aarathi, **Jesu Vedha Nayahi. J**, participated and presented a paper in “Machine Learning Approach for Segmentation of Optic Disc and Cup in Fundus Photograph”, 6<sup>th</sup> International Conference on Emerging Trends in Engineering and Technology, 15<sup>th</sup> April 2016 Cape Institute of Technology.
  29. M. Nishanthi, **J.Jesu Vedha Nayahi**, "Modified BPS Algorithm Based On Shearlet Transform For Noisy Images", in Third International Conference on Recent Trends in Information Technology, 25-27 July 2013, MIT, Chennai.
  30. Gopika Rani G.U, **J.Jesu Vedha Nayahi**, "Review of Cancer Subtype Prediction: Progress and Challenges", International Conference on Mobility in Computing, Dec 17-18, 2013, Kerala.
  31. L.Madhuri Devi, **J.Jesu Vedha Nayahi**, V.Kavitha, "An Efficient Approach for Data Privacy in Distributed Environment Using Nearest Neighbour Search anonymization", in Second International Conference on Recent Trends in Information Technology, 19-21 April 2012, 413-416, MIT, Chennai.
  32. Alamelu Mangai and **Jesu Vedha Nayahi J**, “An effective algorithm for data privacy in distributed environment using wavelets”, National Conference on Computing and Control Engineering, 12<sup>th</sup> and 13<sup>th</sup> April 2012, Dr. M.G.R Educational & Research Institute.
  33. P.Deivanai, **J.Jesu Vedha Nayahi**, V.Kavitha (2011), "A hybrid data anonymization integrated with suppression for preserving privacy in mining multi party data", First International Conference on Recent Trends in Information Technology, organized by MIT, Chennai, IEEE Madras Section during 3-06-2011 to 5-06-2011.
  34. **J.Jesu Vedha Nayahi**, Kurshid Jinna "An enhanced ezw image compression using morphological dialtion", presented in UGC sponsored National Conference on Recent Trends in Computational Mathematics, March 18-19, 2004, Gandhigram Rural University.
  35. **J.Jesu Vedha Nayahi**, B.Erasmus Arockiam, " An Efficient Image Compression using Wavelet", National conference on Recent Trends in Communication Technology, April 7-8, 2004, Thuckalay.
  36. **J. Jesu Vedha Nayahi**, P. Deivanai, participated and presented a paper on “An efficient privacy preserving classification tree using multidimensional suppression in k-anonymity”, held on 4<sup>th</sup> march 2011 in the National conference on Emerging trends in applications of computing conducted by Francis Xavier Engineering College.
  37. C. M. Naga Sudha, and **J. Jesu Vedha Nayahi**, “Patient Wellness: Ethereum Based Electronic Health Record Storage”, in the edited book Blockchain Intelligent Systems, CRC, pp. 158-173, 2024.
  38. CM Naga Sudha, **J Jesu Vedha Nayahi**, “The Future of Sustainable Green Smart Cities”, in the edited book titled Green Computing for Sustainable Smart Cities, pp. 313-340, CRC Press, 2024.
  39. C.M. Naga Sudha, K. Gokulakrishnan and **J. Jesu Vedha Nayahi**, “IoT-Based Secure Smart Healthcare Solutions”, in the edited book Security Engineering for Embedded and Cyber-Physical Systems, CRC, pp. 25-49, 2022



**ANNA UNIVERSITY REGIONAL CAMPUS - TIRUNELVELI**  
**TIRUNELVELI – 627 007**

**Dir : 0462-2554055**

**Office: 0462 – 2554255**

**Fax : 0462-2552877**

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40. C.M. Naga Sudha, K. Gokulakrishnan and **J. Jesu Vedha Nayahi**, “Standards and Protocols of Blockchain”, in the edited book Blockchain for Smart Cities, Elsevier, pp. 335-354, 2021.
  41. Josephine Usha and **J.Jesu Vedha Nayahi**, “Security and Privacy in Big Data Cyber- Physical System”, Book titled Cyber Security and Privacy in Cyber Physical System, edited by Yassine Maleh, CRC, Taylor & Francis Group, May 2019.
  42. Nirmalan, K.Gokulakrishnan and **J.Jesu Vedha Nayahi**, “Load Balancing In Heterogeneous Cluster Cloud Computing”, Edited book titled Novel Practices and Trends in Grid and Cloud Computing, IGI, 146-169, June 2019.
  43. **J. Jesu Vedha Nayahi** and K. Gokulakrishnan, “Medical Image Classification”, in the Edited book titled Medical Image Processing for Improved Clinical Diagnosis, IGI publisher, 59-80, 2018.
  44. **J. Jesu Vedha Nayahi** and Kurshid Jinna "An enhanced EZW image compression using morphological dilation", published in book Computational Mathematics, Narosha Publishers, 2005, ISBN-13: 9788173196195, MORGAN/CLAYPOOL publisher, ISBN-10: 8173196192.

**HONOURS / AWARDS(RECEIVED FROM PUBLISHER ):**

Received two recognized reviewer certificate from Elsevier for reviewing papers in Future Generation Computer Systems Journal and Knowledge based Systems Journal.