## Dr.M.Nandhini

Assistant Professor (Level-II)
Department of Computer Science

[On Deputation: Government Arts and Science College for Women,Puliakulam,Coimbatore-641045]
Government Arts College, Udumalpet.

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Professional Details	
Academic	<ul> <li>Government Arts and Science College for Women, Puliakulam, Coimbatore-</li> </ul>
Experience	641045.(Mar 10(AN) –Till Date
	<ul> <li>Government Arts College, Udumalpet. (Oct 2015 – Mar 10(FN))</li> </ul>
	PSG College of Technology, Peelamedu (Jun 2005-Oct 2015)
	<ul> <li>Sri Ramakrishna Arts and Science College for Women, Siddhapudur (Jul 2003-</li> </ul>
	Jun 2005)
	<ul> <li>VLB Janakiammal College of Arts and Science, Kovaipudur (Jun 2002-Jul 2003)</li> </ul>
Educational	1999 - B.Sc Mathematics, Bharathiar University, Coimbatore.
qualifications	2002 - M.C.A, Bharathiar University, Coimbatore.
	2005 - M.Phil Computer Science, Bharathidasan University, Trichy.
	2009 - M.E Computer Science and Engineering, Anna University, Coimbatore
	2016 - Ph.D, Anna University, Chennai.
Expertise Area	Big Data & Data Analytics
•	Machine Learning
Thesis Title	Certain Investigations on Mining Significant Class Association Rules for Efficient
	Classifier Construction
Professional	ACM (Association for Computing Machinery)
Memberships	ACCS (Advanced Computing and Communication Society, Coimbatore
and Activities	Chapter)
Publications	Journals
	M.Priya, M.Nandhini ,"Detection of fetal brain abnormalities using data
	augmentation and Convolutional neural network in Internet of things",
	Measurement: Sensors, Vol 28, August 2023.
	https://doi.org/10.1016/j.measen.2023.100808
	M.Nandhini ,M.Priya,"Fetal Health Status Prediction using Artificial Neural
	Network with Hyper-Parameter Tuning", International Journal of Early
	Childhood Special Education, Volume 14, pp: 9026-9037, 2022.
	M.Nandhini, "An Insight on Artificial Intelligence in Healthcare System",
	ACTA Scientific Computer Sciences,
	Volume 4, Issue 5, May 2022.
	• Rubia., G,M.Nandhini, "Predictive Soil Analytics Using Data Mining
	<b>Techniques</b> ", INFOCOMP Journal of Computer Science, Volume 20, 2021.
	M.Nandhini, Rajalakshmi M, Sivanandam S N, "Performance Analysis of
	Predictive Association Rule Classifiers using Healthcare Datasets", IETE
	Technical Review, pp:1-14, Oct,2020 (SCI Index,IF-2.175)
	Ms.R.Mahalakshmi, <b>Dr. Nandhini M,</b> Ms. G. Kowsalya,2018, " <b>Sentimental</b>
	Analysis for Social Media – A
	Review", International Journal of Advanced Networking and Applications,
	vol 10, issue: 03 pp: 3860-3863, ISSN: 0975-0290.
	Nandhini M, Rajalakshmi M, Sivanandam S N,2017, "Experimental and
	Statistical Analysis on the Performance of Firefly based Predictive
	Association Rule Classifier for Health Care Data Diagnosis", Control
	Engineering and Applied Informatics, vol 19, no. 2, pp 101-110. (SCI Index, IF: 0.775)

- Nandhini M, Sivanandam S N, 2015, "An Improved Predictive Association Rule Based Classifier using Gain Ratio and T-test for Health Care Data Diagnosis", Sadhana, Indian Academy of Sciences, vol. 40, no.6,pp 1-17.( SCI Index,IF:0.76)
- Nandhini M, Sivanandam S N, Rajalakshmi M, Sidheswaran D,2015,"Enhancing the Spam Email Classification Accuracy using Post Processing Techniques",International Journal of Applied Engineering Research,vol.10,no.15,pp 35125-35130.
- Nandhini M, Sivanandam S N, Rajalakshmi M, 2015, "A Review on the Performance of Neural Network Classifier in Health Care Diagnostic System", Research Journal of Applied Sciences, Engineering and Technology, vol.11,issue.10.
- Akila R, Nandhini M,Sivanandam S N,2015, "Hetero Associative Memory Based Neural Network Classifier for Health Care Data Diagnosis", International Journal of Innovative Science and Modern Engineering, vol.3, issue 6,pp 86-89.
- Vinu R, Nandhini M, 2013, "Interactive Post mining of Weighted Association Rules", National Journal of Technology, vol 10, no.4, pp.55-63.

## **Book Chapters**

- M.Nandhini, S.Aneesh Fathima, "An Analysis Of Agriculture And Healthcare Using Blockchain Embedded With IoT and AI", Book title: Advances in Multidisciplinary and Current Research, R K Publisher, ISBN-978-93-5813-019-5, pp:181,September,2023.
- M.Nandhini, Sivanandam S. N., Renugadevi S.,"Artificial Bee Colony-Based Associative Classifier for Healthcare Data Diagnosis", Book Title:, Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning, IGI-Global, ISBN-9781799827429, pp. 237-253,October,2020
- M.Nandhini, Sivanandam S N, "Extraction of Significant Association Rules Using Pre-and Post-Mining Techniques—An Analysis", Book Title- Ontology-Based Information Retrieval for Healthcare Systems, John Wiley & Sons, ISBN: 9781119641391, pp.37-68, July, 2020

## Conferences

- "Performance Comparison of the Classifiers for Betel Vine Disease Prediction", Lecture Notes in Electrical Engineering, Vol 946, pp. 229–245,1 Jan 2023, Springer, Singapore. https://doi.org/10.1007/978-981-19-5868-7\_18 (Scopus)
- "An Analysis on the Performance of the KNN Classifier over Betel Leaf Images", In: AICTE sponsored International Conference on "Recent Trends in Information communication Technologies-2020", Francis Xavier Engineering College, Tirunelveli, 22, Dec, 2020.
- "An Experimental study on the Performance of the Classifiers for Soil Analysis of Tiruppur district", In: AICTE sponsored International Conference on "Recent Trends in Information communication Technologies-2020", Francis Xavier Engineering College, Tirunelveli, 22, Dec, 2020.
- "Predicting Fraudulent Claims in Automobile Insurance",In: Second International Conference on Inventive Communication and Computational Technologies,Coimbatore,IEEE,Coimbatore,20-21,April,2018.
- "Fuzzy Rule Generation in Artificial Bee Colony Algorithm Based Associative Classification", In: National conference on Data Intensive Computing, PSG College of Technology, April, 2016.
- "Association Rule Mining using Swarm Intelligence and Domain Ontology", In: International Conference on Recent Trends in Information Technology, Madras Institute of Technology, Anna University, Chennai, 19-21 April, 2012, pp. 537 541. (Citations:7) ISBN: 978-1-4673-1599-9. (Scopus Citations:24)
- "A hybrid PSO-GA based Model for Support and Confidence Computation", In: International Conference on Recent Trends in Computer Science and Engineering, Apollo Engineering College, Chennai, 3-4 May,2012, pp.42. ISBN: 978-81-9089-807-2.
- "Analysis on Hybrid FP-Tree Technique and its Application on Medical Data", In: International Conference on Recent Trends in Computer Science and Engineering, Apollo Engineering College, Chennai, 3-4 May,2012,pp.36. ISBN: 978-81-9089-807-2.

## "Automatic Web Query Classification", In: National Conference on Advanced Communications and Networking, CISCO Networking Academy and Avinashilingam University for Women, Coimbatore, 8th January, 2009. **Patents** Smart Betel Vine Cultivation using IoT", Filed(05-06-2019), Ref No.201941022354, published in 14-06-2019. Seminar on "Perspectives in Placement Preparation" on 6th March 2007, Dept. **Activities Organized** of CSE, PSGCT. (Workshop, Two days "Workshop on Computer Hardware and Installation" during 4th and Symposium, 5<sup>th</sup> August, 2007, Dept. of CSE, PSGCT. Seminar, FDP, "Workshop on Soft skills" on 5th July, 2008, Dept. of CSE, PSGCT. Conference, "Technical Symposium" on 14th February, 2009, Dept. of CSE, PSGCT. etc,) "Inter Collegiate Conference on Research Issues in Computer Science and **Engineering**" on 9<sup>th</sup> April,2012, Dept. of CSE, PSGCT. TEQIP sponsored "Five Day FDP on "Big Data Analytics: Emerging **Technologies**" during 24 – 28, march,2014, Dept. of CSE, PSGCT. Invited Lecture on "Computer Hardware and Installation" in the Training Programme Talks/Lectures conducted by PSG STEP, August 2007. Lecture on "Weka-A data mining tool" in the FDP on "Data Warehousing and Mining" conducted by Dept of CSE,PSG CT,7th December ,2012. Lecture on "Weka-A data mining tool" in the National Level Workshop, conducted by Dept of IT, EASA College of Engineeing and Technology, 23rd February, 2013. Lecture on "Weka-A data mining tool" in the AICTE sponsored FDP on "Research Challenges and Emerging trends in Intelligent Information Retrieval", conducted by Dept of CIS, PSGCT, 3rd May, 2013. Lecture on "A data mining tool" in the AICTE sponsored FDP on "Emerging trends in Computing- An Academic, Research and Social Perspective", conducted by Dept of CSE, PSGCT, 16th May, 2013. Lecture on "Weka-A data mining tool" in the AICTE sponsored FDP on "Computational Intelligence - An Academic, Industrial and Social Perspective", conducted by Dept of CSE, PSGCT, 10th June, 2013. Lecture on "An Insight on Data Mining Tools" in the TEQIP PHASE II Sponsored one week FDP on "Data Mining Techniques and Tools-Research Perspective" conducted by Dept of CSE & IT, CIT,11th November, 2013. Lecture on "Massive Online Analysis (MOA)-A big data mining tool" in the TEQIP PHASE II Sponsored Five Day FDP on "Big Data Analytics: Emerging Technologies", conducted by Dept of CSE, PSGCT, 28th March, 2014. Lecture on "Introduction to Weka tool" in the TEQIP PHASE II Sponsored FDP on "Data Mining and Information Retrieval", conducted by Dept of IT, PSGCT, 27th April ,2014. Lecture on "R-Software for Statistical Computing" in the FDP, conducted by Dept of CS,STC,18th June, 2016. Lecture on "Data Analytics using R-Software" in the FDP, conducted by Dept of CS,STC,23rd July ,2016. Lecture on "Weka -A Data mining Tool", in the FDP, conducted by Dept of IT,STC, 28th November,2017.

Lecture on "Online User behavior Tracking-challenges and Defenses", in the CSIR sponsored Seminar on Power of Big data in Cyber Security,conducted by Department of ECE,Hindusthan College of Engineering,Coimbatore,13<sup>th</sup>

Lecture on "Data Mining using R-tool" in the State Level FDP sponsored by TNSCST, conducted by Department of Computer applications, NGM

Lecture on "Demystifying Data Science" in the One Week National Level Online Faculty Development Programme on "Recent Advancements in Artificial Intelligence", conducted by Department of Computer Science and Engineering,

July,2019.

College, Pollachi, 9-10th, Jan, 2019.

	Shri Vishnu Engineering College for Women (Autonomous), Bhimavaram,23-
	27, June, 2020.
	<ul> <li>Lecture on "Weka tool" in the FDP conducted by Department of ICT and Cognitive</li> </ul>
	Systems, Sri Krishna Arts and Science College, Kuniyamuthur, Coimbatore, 9th
	Jan,2021
	Lecture on "A Perspective on Data Science",conducted by Department of
	Computer Technology,KG College of Arts and Science,Coimbatore,24 <sup>th</sup>
	May,2021.
	Lecture on "Prospects and Trends in ML " in One Week National Level Online
	Faculty Development Programme on "Societal Applications of Machine Learning"
	conducted by Department of Computer Science and Engineering, Shri Vishnu,
	Engineering College for Women (Autonomous), Bhimavaram,24 <sup>th</sup> May,2021. 28th
	December 2022.
	Lecture on "Data Mining using R-tool" conducted by Department of Computer
	applications, NGM College,Pollachi,23rd Jan,2023.
	Lecture on "Demystifying AI &MLI" conducted by Department of Computer  applications Covernment Arts College Coimbators, 22rd Mar 2022
	applications, Government Arts College, Coimbatore, ,23 <sup>rd</sup> Mar,2023.
	<ul> <li>Lecture on "Trends in AI" conducted by Department of Computer Science, Dr. R. V. College of Arts and Science, Karamadai, 14<sup>th</sup> July, 2023.</li> </ul>
	Lecture on "The Synergy of Mathematics and Computer Science" conducted by
	Department of Mathematics, Government Arts and Science
	College, Mettupalayam, 23rd Dec, 2023.
Academic	G.Kowsalya, M.Phil (FT),2017, Bharathiar University, Research Centre: Dept. of
Supervisory	Computer Science, Government Arts College, Udumalpet.
Work	<ul> <li>S.Aneesh Fathima M.Phil (FT),2018, Bharathiar University, Research Centre:</li> </ul>
(Research	Dept. of Computer Science, Government Arts College, Udumalpet.
guidance)	M.Priya,Ph.D(PT),2017, Bharathiar University, Research Centre: Dept. of  Output (an October of Contract Output (Arts College))  Output (Arts College)
	Computer Science, Government Arts College, Udumalpet.
	<ul> <li>G.Rubia, Ph.D(FT), 2019, Bharathiar University, Research Centre: Dept. of Computer Science, Government Arts College, Udumalpet.</li> </ul>
	S.Aneesh Fathima, Ph.D (PT), 2021, Bharathiar University, Research Centre:
	Dept. of Computer Science, Government Arts College, Udumalpet.
Awards and	Award for excellence in Teacher in Computer Science and Engineering, 30th
Achievements	April, 2019, By Global Outreach Research and Education Association, Jaipur.
	(Registered under MSME, Government of India)
	Best Team Achievement award in Faculty Enablement Programme on Building
	Enterprise Applications by Infosys Campus Connect, Infosys, Bangalore,
	August 2012.
	Awards for the Guidance of Best Project
	"Sign Language Chat for Hearing Impaired People" was given the best project  award by Alumpi Association of BSC College of Tachnology, May 2000 for the
	award by Alumni Association of PSG College of Technology, May 2009 for the students of Final year B.Sc(CT)
	"Automated Call Response System" was given the best project award by Alumni
	Association of PSG College of Technology, May 2010 for the students of Final
	year B.Sc(CT)
Other	Editorial Board Member-ACTA Scientific Computer Sciences Journal
Activities	NPTEL translator for swayam course content (Object-Oriented Analysis and
	Design (106105153) offered by IIT-Kargapur), Dec 2020
	Reviewer in Elsevier journals(Computers and Electrical Engineering, Computer)
	and information Sciences, International Journal of Mining Science and
	Technology, Applied Soft Computing), Bulletin of Polish Academy of Sciences
	Elite with Gold Medal certificate for NPTEL course on "Introduction to R      Section 1"
	software", conducted by IIT, Kanpur, Aug-Sep, 2018.