Mrs. A. Periya Nayaki B.E., M.E., Ph.D.
Assistant Professor, Information Technology,
Velammal College of Engineering and Technology, Madurai
e-Mail Id: apn@vcet.ac.in

Educational Qualification:(will be either in Table (or) Paragraph starting with Higher Degree)

- Pursuing Ph.D degree in the Faculty of "Information and Communication Engineering " admission dated Jan'2021, Anna University, Chennai-600 025.

- Master of Engineering in Computer Science and Engineering, 2014, 9.2 CGPA (M.E) from Thiagarajar College of Engineering, Madurai affiliated to Anna University.

- Bachelor of Engineering in Computer Science and Engineering, 2011, 76% (First Class with Distinction) from SACS M.A.V.M.M. Engineering College affiliated to Anna University.

Experience in Years:

Employment History: (will be either in Table (or) Paragraph starting with current employer)

Position held	Employer	Date		Experience	
		From	To	Years	Months
Assistant Professor	Velammal College of Engineering and Technology-Madurai	01.09.2023	Till date	-	-
Assistant Professor	Solamalai College of Engineering, Madurai	01.12.2022	31.08.2023	0	9M
Assistant Professor	Kamaraj College of Engineering and Technology	16.06.2014	31.03.2020	5Y	9M

Interested Research Areas:

- Data Mining
- Machine Learning
- Databases

Scholarships and Awards received:

- Got AWARD OF EXCELLENCE in "Springer International Conference on Artificial Intelligenceand Evolutionary Algorithms in Engineering Systems"
- Got B1 level in Cambridge English Entry Level Certificate in ESOL International (Entry 3)

Online Certification:

- Received Certificate authorized by IBM through Coursera for Databases and SQL for Data Science.
- Received Certificate authorized by University of Michigan through Coursera for Programming for Everybody (Getting Started with Python), Using Python to Access Web Data, Python Data Structures, Using Databases with Python.
- Received Certificate authorized by Data Camp through Big Data University "Introduction to R" course.
- Completed "Introduction to Python" course in GUVI

Publications Details:

Patent Journal Publication Details:

- Periya Nayaki et al, "DEEP LEARNING BASED ARTERY DEPOSITION ANALYSIS USING SEGMENTATION AND CNN CLASSIFICATION", Patent No. 202341016441 & 12.03.2023, Published.

- Periya Nayaki et al, "MACHINE LEARNING BASED INTELLIGENT ENERGY METER WITH BILL SUPERVISING TECHNOLOGY", Patent No. 202231038391 & 4.7.2022, Published

International Journal Publication Details:

- Periya Nayaki et al., "Deep Ensemble Learning with GAN-based Semi-Supervised Training Algorithm for Medical Decision Support System in Healthcare Applications", International Journal of Intelligent Engineering and Systems [Scopus Indexed] ISSN: 2185-3118 , Volume 15, Issue 6, pp. 201-212, November 2022.
- Periya Nayaki et al., "A Review of Decisive Healthcare Data Support Systems", Intelligent Communication Technologies and Virtual Mobile Networks [Scopus Indexed] ISBN: 978-981-19-1844-5, Volume 131, pp. 735-744, July 2022.
- Periya Nayaki et al., "A Survey on Data Mining in Big Data", International Journal of Research and Scientific Innovation (IJRSI) ISSN: 2321 – 2705, Volume 3, Issue 1A, January 2016.
- Periya Nayaki et al., "Customer Feedback Evaluation System using Feature Based Opinion Mining", International Journal of Advanced Research in Computer Science and Software Engineering, ISSN: 2277 128X , Volume 6, Issue 3, March 2016.
- Periya Nayaki et al.,"A Survey on Opinion Mining and Sentiment Analysis", "InternationalJournal of Applied Engineering Research, ISSN 0973-4562, Vol. 10 No. 85(2015), pp. 250-256.
- Periya Nayaki et al., "Mining Frequent Patterns with Screening of Null Transactions using different models", International Journal of Innovative Research in Science, Engineering and Technology, Volume 3, Special Issue 3, March 2014.
- Periya Nayaki et al., "Survey on Frequent Pattern Mining over Data Streams", International Journal of Engineering Research & Technology, ISSN: 2278-0181, Volume 2, Issue 12, December 2013.

International Conference Presentation Details:

- Periya Nayaki et al.,"A Novel Greeting System for Hospitality Industry Using Face Recognition", 2018 in 2nd International Conference on Recent Trends in Engineering, Computers, Information Technology and Applications (ICRTECITA-2018).
- Periya Nayaki et al.,"Retrospect Analysis in Application", 2018 in 2nd International Conference on Recent Trends in Engineering, Computers, Information Technology and Applications (ICRTECITA-2018).
- Periya Nayaki et al.,"GSM based Home Environment Monitoring System:, 2018 in International Conference on Trends in Electronics and Informatics (ICOEI 2018).
- Periya Nayaki et al., "Prediction of Students Employability Using R-Programming", 2017 6th National Conference on Recent Trends in Electrical, Electronics, Communication & Computing Technologies (NCRTE2C2T-2K17).
- Periya Nayaki et al., "TESTWEB: An Automated Testing Framework for Statistical Web Application Testing", 2016 IEEE International Conference on Engineering & Technology (ICETECH-2016).
- Periya Nayaki et al.,"Recent Frequent Itemset Mining in Data Streams using Diffset Strategy", International Conference on Emerging Trends in Engineering, Technology & Management (ICETM-2015).
- Periya Nayaki et al.,"Frequent Itemset Mining with Elimination of Null Transactions over Data Streams", Springer International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems-2014.

FDP/Seminar/workshop/Short Term Course Attended

Faculty Development Programme:

- From 15.05.2023 to 19.05.2023, I have participated Five Days Virtual DFP on Funded Project Application at Dr.M.G.R. Educational and Research Institute, Chennai.
- From 28.03.2023 to 01.04.2023, I have participated the 5-Days FDP on "New Age Technologies" at Vellore Institute of Technology.
- From 08.02.2023 to 10.02.2023, I have participated the Three Day National Level Virtual Workshop on "Role of Assessment and Accreditation towards Improving the Quality of Education and National Educational Policy Implementation in Higher Educational Institutions" at Kamaraj College of Engineering and Technology.
- On 27.01.2023, I have participated the International Seminar on "Impact of the Artificial Intelligence in Technological Development (IAITD)" by Dambi Dollo University.
- On 19.01.2023, I have participated in the Foreign Professor Talk titled "Roe of Social Media in the Digital Marketing" organized by School of Computer Science and Engineering at Vellore Institute of Technology.
- From 11.01.2023 to 12.01.2023, I have attended an ISTE Tamilnadu Section Sponsored A Two Day National workshop on "Applications of Deep Learning Techniques in Image Retrieval" at Mangayarkarasi College of Engineering, Madurai.
- From 12.12.2022 to 16.12.2022, I have participated the Five Days International Faculty Development Programme on "Emerging Trends in AI and Data Science Applications" at Poornima College of Engineering, Jaipur.
- From 18.7.2022 to 27.7.2022, I have participated the online Faculty Development

Program on "Optimization Techniques using ML for Engineering Discipline" organized by E & ICT Academy & Department of Computer Science & Engineering, NIT Warangal In Association With Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad.

- From 24.01.2022 to 01.02.2022, I have participated the online Faculty Development Program on "Optimization Techniques: Theory, Practice and Emerging Applications" organized by E&ICT Academy, Sponsored by Ministry of Electronics and Information Technology (MeiTY), National Institute of Technology, Warangal.
- From 25.10.2021 to 29.10.2021, I have participated the online Faculty Development Program on "Artificial Intelligence Machine Learning and Deep Learning Applications" conducted by CSE Department, National Institute of Technology, Warangal.
- Attended one day Faculty Development Program on "Active Learning" organized by CSE Department in association with Campus Connect Team of Infosys at Kamaraj College of Engineering and Technology on 15th April, 2017.
- Attended TEQIP II Sponsored 14 days Faculty Development Program on "Hands on Cloud& Big Data Analytics" from 12th May to 25th May, 2015 at Bharathidasan Institute of Technology (BIT) Campus, Tiruchirappalli.
- Attended five days Faculty Development Program on "Big Data" from 28th September to 03rd October, 2015 at Kamaraj College of Engineering and Technology.
- Attended five days Faculty Development Program on Data Science and Big Data Analytics conducted by ICT Academy of Tamil Nadu from 11th July to 15th July, 2016 held at Kamaraj College of Engineering and Technology.
- Attended two days Faculty Development Program on CS6704- Resource Management Techniques from June 30th July & 1st July, 2016 at TRP Engineering College (SRM Group),Tiruchirappalli.
- Attended a Sun Educational Services Session on "Introduction to the Solaris 10 Operating System" Conducted by Sun Microsystems India Pvt. Ltd. on 21st September, 2008 held at SACS M.A.V.M.M Engineering College, Madurai.

Seminars:
- On 1.10.2021, I have participated the research seminar "Assistive Technology" conducted by CSE Department, PSNA College of Engineering and Technology, Dindigul.
- On 26.5.2021, I have participated the online training/webinar on "IEEE-Enhancing your project work and research" conducted by CSE Department, PSNA College of Engineering and Technology, Dindigul.
- Attended one day seminar on Nuclear Energy for Future Generations (NSNE-16) at Kamaraj College of Engineering and Technology on 26th February, 2016.
- Attended two days CSIR Sponsored National Seminar on "Data Mining, Rough Sets and Granular Computing" from 12th December & 13th December, 2013 held at Kongu Engineering College, Erode.

Workshops:
- Attended two days Hands-on workshop on python programming from 18th August & 19th
August, 2017 at Velammal College of Engineering and Technology, Madurai.
- Attended two days Workshop on "Big Data Analytics" from 12th December to 13th

December, 2014 at National Institute of Technology, Tiruchirappalli.
- Attended one day workshop on "Intellectual Property Rights & Innovations" at Kamaraj College of Engineering & Technology on 13th February, 2016.
- Attended Workshop on "Game Application Development in Green foot" Organised by Department of Software Systems, Kamaraj College of Engineering & Technology from 05th January, 2016 to 07th January, 2016.
- Attended one day workshop on "Soft Computing for research Applications" at Kamaraj College of Engineering & Technology, Virudhunagar on 13th August, 2015.
- Attended two days National level Workshop on "Data Mining Tools and Techniques Practical Approach" from 20th September & 21st September, 2013 held at Kongu Engineering College, Erode.
- Attended Two days National level Workshop on "Cloud & Big Data Analytics" from 01st
March & 02nd March, 2013 held at Sri Eshwar College of Engineering, Coimbatore.
- Attended Linux Workshop and successfully completed the Linux test organized at Thiagarajar College of Engineering which is offered by Spoken Tutorial Project, IIT Bombay.

Short Term Course:
- From 28.03.2022 to 01.04.2022, I have participated the National Online Short-Term Course on "Artificial Intelligence and Machine Learning Applications" conducted by the Department of CSE, NIT Warangal in association with CCE, NIT Warangal.
- Attended Six Days AICTE – ISTE sponsored Induction programme on "Teaching Methodologies for Budding Faculty of Technical Institution" from 14th may to 19th May 2018 at Mepco Schlenk Engineering College.

FDP/Seminar/workshop/Short Term Course Organized
- Organized a "Three Days Workshop on Machine Learning" from 21st February, 2019 to23rd February, 2019.
- Organized a "One Day Workshop on Photoshop" on 21st February, 2018 for II and III CSEstudents.
- Organized organize a "One Day Career Education Conclave on Cognitive Analytics" on19th April, 2017.
- Organized a "Workshop on Python Programming" on 27th October, 2017 for first year CSEStudents
- Organized ICTACT Sponsored 5 days Faculty Development Program on Data science andBig Data Analytics for Faculty Members from 11th July to 15th July, 2016
- Organized a One day workshop on Intellectual Property Rights & Innovations on 13thFebruary, 2016.
- Organized a Guest Lecture on "Integer Programming" on 14th September, 2016 for finalyear students.

Resource Person / Lectures Delivered
- Resource Person for an orientation session for the seminar "Advanced Data Structures andAlgorithms" on 19th August, 2016.
- Technical Bucket Programme on "R Programming" from 26th December, 2016 to 28thDecember, 2016.
- Lectures Delivered on Python Programming in "Get Ready for Engineering 2018"

programfor School Students.

- Lectures Delivered on R Programming in "SDP on Data Science and Big Data Analytics".

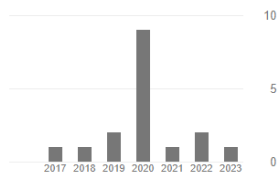## Membership
- ISTE Member

Google Scholar report:

TITLE	CITED BY	YEAR
GSM based home environment monitoring system TM Jothi, A Periyanayaki, R Srimathy, M Vinotha, G Gopika 2018 2nd International Conference on Trends in Electronics and Informatics …	9	2018
A survey on data mining in big data R Kirubakaran, A Periya Nayaki, CM Prathibhan International Journal of Research and Scientific Innovation 3 (IA), 37-40	3	2016
Survey on Frequent Pattern Mining over Data Streams A Subbulakshmi, C Deisy International Journal of Engineering Research and Technology 2 (12), 2276-2283	3	2013
Compact pattern stream tree algorithm B Subbulakshmi, AP Nayaki	2	2018
Deep Ensemble Learning with GAN-based Semi-Supervised Training Algorithm for Medical Decision Support System in Healthcare Applications. PN Anbarasu, TM Suruli International Journal of Intelligent Engineering & Systems 15 (6)		2022
A Review of Decisive Healthcare Data Support Systems AP Nayaki, MS Thanabal, K Leelarani Intelligent Communication Technologies and Virtual Mobile Networks …		2022
Frequent Itemset Mining on Large Uncertain Database A Periyanayaki, S Shobana, EJR Winsy		2020
Frequent Itemset Mining with Elimination of Null Transactions Over Data Streams B Subbulakshmi, A Periya Nayaki, C Deisy Artificial Intelligence and Evolutionary Algorithms in Engineering Systems …		2015
Mining Frequent Patterns with Screening of Null Transactions Using Different Models B Subbulakshmi, AP Nayaki, C Deisy		

Co-authors   EDIT

No co-authors