

Dr.S.PANDIKUMAR

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Career Objective:

To secure a challenging position where I can effectively and sincerely contribute my skills as Head & Associate Professor in the department of Computer Science.

Work Experience : **Total:** 16.7 Years; **Academic:** 16 Years; **Industry:** 7 months;
([Kindly Refer Annexure – I](#))

Research Area : Data Analytics, Green Computing, Mobile Computing, IoT.

Publications : **Q1/Q3: 6**, Scopus: **14**, WoS: **1**, Springer: **1**, UGC Care: **19**
([Kindly Refer Annexure II](#))

IPR : Patent: 9, Copyright: 16 ([Kindly Refer Annexure – III](#))

Press & Media : **15 Nos** ([Kindly Refer Annexure – IV](#))

Funds Applied : FDP - 2, PROJECTS – 1 ([Kindly Refer Annexure – V](#))

Awards & Honor : **11 Nos** ([Kindly Refer Annexure – VI](#))

Books Published : Technical: 6, Research: 4, General: 5 ([Kindly Refer Annexure–VII](#))

Editorial : Book Chapter: 5 ([Kindly Refer Annexure – VIII](#))

Contribution to students Books : **4 Nos** ([Kindly Refer Annexure – IX](#))

Research/Academic Activities : **4 Nos** ([Kindly Refer Annexure – X](#))

Educational Qualifications:

Discipline	School/College	Board/ University	Year of Passing	%
PDF	SR University, Telengana	SR University, Telengana	Pursuing	NA
Ph.D	Madurai Kamaraj University, Madurai	Madurai Kamaraj University, Madurai	2019	NA
M.Phil	M.S.University	M.S.University, Tirunelveli	2013	72%
MCA	Cherraan's Arts Science College, Kangayam.	Bharathiar University, Coimbatore	2007	80%
BCA	Cherraan's Arts Science College, Kangayam.	Bharathiar University, Coimbatore	2004	62%
Higher Secondary	Nanjappa High Sec School, Tirupur	State Board	2001	64%
SSLC	Najappa High Sec School, Tirupur	State Board	1998	69%

Annexure I

Work Experiences

- 1) Working as an Associate Professor in Acharya Institute of Technology, Bangalore from 03 Apr 2024 to till date.
- 2) Worked as an Assistant Professor, School of CS&IT in Jain University, Bangalore from Aug 2023 to 29.02.2024 (**7 months**).
- 3) Worked as an Head & Assistant Professor in The American College, Madurai from Aug 2019 to June 2023 (**3 years 10 months**)
- 4) Worked as an Assistant Professor in Arul Anandar College (Autonomous), Madurai from June 2018 to July 2019 (**1 Year 1 month**)
- 5) Worked as an Head & Assistant Professor in Subbalakshmi Lakshmipathy College of Science (Autonomous), Madurai from May 2013 to Mar 2017 (**3 years 10 months**).
- 6) Worked as an Assistant Professor in Thiagarajar College (Autonomous), Madurai from Jan 2012 to May 2013 (**1 year 4 months**).
- 7) Worked as an Assistant Professor in Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi from Feb 2008 to April 2011 (**3 years 2 months**).

Annexure II

Publications in Q1 Journals (1 Nos)

1. A Context-Aware Intelligent Scheduling Framework for Modern Operating Systems Using Hybrid Machine Learning Models, Journal of Computational and Cognitive Engineering, (Q1), DOI: **10.47852/bonviewJCCE62026664**.

Publications in Q3 Journals (4 Nos)

1. An Artificial Intelligence and Genetic Algorithm Optimized Biosensor System for Real-Time Detection of Environmental Toxins and Their Biomedical Impact: A Natural Science Driven

- Approach to Sustainable Public Health Monitoring, Natural and Engineering Sciences, ISSN: 2458-8989 (Q3), 10 (3): 561-574, 2025. DOI: 10.28978/nesciences.1811144.
2. AI-driven nonlinear optimization for knowledge extraction and pattern analysis in IoT-enabled data mining systems, Results in Nonlinear Analysis, ISSN 2636-7556 (Q3), 8(3), 36-46, 2025. DOI: 10.31838/rna/2025.08.03.005.
 3. Fuzzy logic-driven nonlinear optimization for resource allocation in 6G networks, Results in Nonlinear Analysis, ISSN 2636-7556 (Q3), 8(2), 239–252., 2025 DOI:10.31838/rna/2025.08.02.019
 4. Blockchain-Enhanced Secure RF Link Transmission in Antenna-Constrained Industrial IoT Systems, National Journal of Antennas and Propagation, ISSN 2582-2659 (Q3), Vol. 7, No. 1 (pp. 270-279), 2025 DOI: 10.31838/NJAP/07.01.30

Publications in Scopus indexed Journals (4 Nos)

- 1) “An Implementation of Enhanced Inception-Residual Convolutional Neural Network in Lung Cancer Prediction”, Journal of Theoretical and Applied Information Technology, ISSN: 1992-8645, Vol.103. No.19, pp 7755- 7766, Oct 2025. <https://www.jatit.org/volumes/Vol103No19/1Vol103No19.pdf>
- 2) “Secured Policy based Resource Access and User Authentication in Ubiquitous Computing Environment” International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Volume-9, Issue-1, pp. 1836-1841, November 2019. <https://www.ijitee.org/wp-content/uploads/papers/v9i1/A4731119119.pdf>
- 3) “Fleet Automation Using IoT Logistics”, International Journal of Engineering and Advanced Technology (ISSN: 2249 –8958), Volume-8 Issue-6, pp. 4231-4238, August 2019. <https://www.ijeat.org/wp-content/uploads/papers/v8i6/F8911088619.pdf>
- 4) “Energy Efficient Algorithm for High Speed Packet Data Transfer on Smartphone Environment”, International Journal of Engineering and Advanced Technology (ISSN: 2249 – 8958), Volume-8 Issue-6, pp.2644-2658, August 2019. Doi: 10.35940/ijeat.F8668.088619

Publications in IEEE Proceedings (Scopus indexed) (11 Nos)

- 1) Policy Gradient–based Reinforcement Learning for Driver–Passenger Matching in Ride-Hailing Platforms, 2nd Int. Conf on Visual Analytics and Data Visualization, Tirunelveli, India, 24-26 Feb 2026.
- 2) Adaptive Driver–Passenger Matching in On-Demand Mobility Platforms using Deep Q-Networks, Int. Conf on Sustainable Communication Networks and Application, Theni, India, 15th-17th Oct 2025. DOI:10.1109/ICSCN67106.2025.11308611
- 3) DermAI: A Triple-CNN Ensemble Learning Approach for Early Detection of Skin Tone Abnormalities in Clinical Settings. Int. Conf on Sustainable Communication Networks and Application, Theni, India, 11th-12th Dec 2024. DOI:10.1109/ICSCNA63714.2024.10864008
- 4) Enhancing Cybersecurity using Machine Learning Strategies for Phishing Defense, 9th Int. Conf on Communication and Electronics Systems, ICCES 2024, India 2024.
2. DOI: 10.1109/ICCES63552.2024.10859402
- 5) Enhancing IPL Match Outcome Prediction With Privacy-preserving Using Machine Learning Techniques, 15th Int. Conf on Computing Communication and Networking Technologies, ICCCNT 2024, India 2024 DOI:10.1109/ICCCNT61001.2024.10724746
- 6) “Enhancing Loan Approval Prediction through advanced Machine Learning Models”, 2nd Int. Conf. on Sustainable computing and smart systems, India, 10-12 July 2024.
3. DOI: 10.1109/ICSCSS60660.2024.10625409

- 7) "Energy Performance Forecasting in Buildings Using Machine Learning," 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), Chennai, India, 2024, pp. 1-6, **DOI: 10.1109/IC3IoT60841.2024.10550233.**
- 8) "Naive Bayes and SVM-based Classification of Myocardial Tissue with Echocardiography Images for Heart Disease Diagnosis," 2023 International Conference on Sustainable Communication Networks and Application (ICSCNA), Theni, India, 2023, pp. 618-625,
4. DOI: 10.1109/ICSCNA58489.2023.10370212.
- 9) "Analysis of Patient Satisfaction through Interpretable Machine Learning Algorithms," 2023 2nd International Conference on Edge Computing and Applications (ICECAA), Namakkal, India, 2023, pp. 365-371, **DOI: 10.1109/ICECAA58104.2023.10212377.**
- 10) "Performance Analysis of Random Forest Classifier in Extracting Features from the EEG signal", In Proc. 2022 1st IEEE Int. Conf. on Advanced Computing Technologies and Applications (ICACTA '22), pp. 1-5, Coimbatore, India, 2022. **DOI: 10.1109/ICACTA54488.2022.9753364.**
- 11) "Pattern Discovery and Analysis of Customer Buying Behavior Using Association Rules Mining Algorithm in E-Commerce", In Proc. 2022 First IEEE Int. Conf. on Electrical, Electronics, Information and Communication Technologies (ICEEICT), pp. 1-5, Trichy India, 2022. **DOI: 10.1109/ICEEICT53079.2022.9768473.**

Publications in Springer (Books Chapters) (1 Nos)

- 1) "Towards Smartphone Energy Optimization through Users Operating Pattern Discovery", In: Sentiment Analysis and Deep Learning. Advances in Intelligent Systems and Computing, vol 1432. Springer, Singapore. https://doi.org/10.1007/978-981-19-5443-6_47, 2022.

Publications in Web of Science indexed Journals (1 Nos)

- 1) "Deep Learning based Long Short-Term Memory Recurrent Neural Network for Stock Price Movement Prediction", Indian Journal of Science and Technology (0974-5645), Vol: 15, Issue: 11, Pages: 474-480, 2022. <https://doi.org/10.17485/IJST/v15i11.27>

Annexure III

Patent Granted/ Published (9)

- 1) Published a patent entitled "SMS based Command Execution Protocol for network Administration" **Appl.No: 202541086063, 03.10.2025**
- 2) Published a patent entitled "Federated Learning and Privacy-Preserving Framework for Multi-Domain Data Analysis" **Appl.No: 202541049578, 06.06.2025**
- 3) Granted a Design Patent entitled "IOT Based Air Pollution Monitoring Device", **Design No: 445380-001, 16/04/2025**
- 4) Published a patent entitled "Reinforcement Learning-Based Deadlock Avoidance Mechanism for Operating System Resource Scheduling". **Appl. No: 202541016890. 07/03/2025**
- 5) Published a patent entitled "AI-Driven Display Unit Brightness Optimization Using Adaptive Reinforcement Algorithm Based on User Content". **Appl. No: 202541010246. 21/02/2025**
- 6) Published a patent entitled "Anomaly Detection to Find Patterns in Agriculture Fields for Crop Productivity Using Deep Learning Approaches". **Appl. No: 202441093569. 13/12/2024**
- 7) Published a patent entitled "Assessment of High-Dimensional Data Classification for Skin Malignancy Detection Using Deep Learning". **Appl. No: 202441082149. 08/11/2024**
- 8) Published a Patent entitled "Securing and providing safety in industrial environments and integrating app-embedded robots using IOT". **Appl. No: 202441058587. 02/08/2024.**

- 9) Published a Patent entitled “Energy Consumption Prediction and Alert Generation Using Deep Learning” **Appl. No: 202241007336**. 11/02/2022

Copyright Registered (16)

- 1) Advanced System-Level File Transfer Restriction Framework Utilizing Windows API Libraries, ROC: SW-2025021085, July 2025
- 2) A Novel Task Manager using Windows Media Instrumentation, ROC: SW-2025021014, July 2025.
- 3) A Novel Windows Service Controller using WMI, ROC: SW-2025020827, June 2025.
- 4) PS Energy Optimization Algorithm: An Energy Efficient Data Scheduling Mechanism In Smartphone Environment. ROC: SW-20307/2025, April 2025
- 5) AI-Driven PC monitor Brightness Optimization based on Displayed Content. ROC: SW-20276/2025, Mar 2025.
- 6) A Novel Program to Create a Remote user using .Net API, ROC: SW-20244/2025, Mar 2025
- 7) Barrier to Success – A Short Story, ROC: L-162397/2025, Mar 2025.
- 8) A Novel Program to Shutdown local system using Windows Kernel Invocation, ROC: SW-20218/2025, Mar 2025
- 9) User Account Management Using WMI in Windows Operating System, ROC: SW-20204/2025, Feb 2025
- 10) SMS-Driven Remote Network Administration System, ROC: SW-20178/2025, Feb 2025
- 11) Next-Generation QR code based Electoral System with Language Flexibility, ROC: SW-20177/2025, Feb 2025
- 12) Rijndael Algorithm based Visual Cryptography for Multimedia Content Security, ROC: SW-19968/2025, Jan 2025.
- 13) Smartphone Data Transfer Scheduling Mechanism for High-Speed Cellular Network, ROC: A-156952/2025, Jan 2025.
- 14) A Novel C Program for a Console-based Menu-Driven Code Editor Without graphics.h, ROC: SW-19831/2024, Dec 2024.
- 15) A Novel Title-Driven Firewall for Secure Web Access and Parental Control, ROC: SW-19577/2024, Oct 2024.
- 16) A Novel Single Statement C Program to Count Vowels in a String, ROC: SW-19562/2024, Oct 2024.

Annexure IV

Press & Media Appearances (15 Nos)

- 1) Interview about Innovative Teaching is published in Daily Thanthi (National Newspaper) on 07-09-2019
- 2) Teacher’s day interview article published in The Hindu (Tamil Web Edition) on 05.09.19
- 3) Teacher’s day special interview regarding “Teaching by memes” is telecasted in Sun News TV (National Media) on 05.09.19. <https://www.youtube.com/watch?v=Fxj7Y2T2L5Y&t=42s>
- 4) Teacher’s day special interview regarding “Teaching by memes” is telecasted in Puthiyathalaimurai TV (National Media) on 05.09.19. <https://www.youtube.com/watch?v=ZV6DTPgnAvI&t=103s>
- 5) My interview broadcasted in Hello FM (Madurai) through audio and Video in their channel on 25.07.19. <https://www.facebook.com/435650216637675/posts/1440497482819605/>

- 6) My Interview article published about Memes Teaching in Vikatan Magazine (Online) on 10.07.2019.
- 7) My Interview broadcasted in News 7 Tamil channel about “Teaching by Memes” on 26.06.19 the link is <https://youtu.be/QqvtCgfS7JU>
- 8) Special article published about my operating system memes book in EEnadu national media on 13.03.2019.
- 9) Participated a Teachers day Pattimandram and Kaviyarangam organized by Tamil Mandram at Sri Krishna Adithya College of Arts and Science, Coimbatore on 06.09.2017.
- 10) Participated a Pongal Pattimandram organized Syamalavani FM at Subbalakshmi lakshmipathy College of Science, Madurai on 06.01.2017. <https://www.youtube.com/watch?v=ERUYhn0V19o>
- 11) Published an article about “Future of Networking field” published in Dinamalar daily newspaper, 15.08.2016.
- 12) Published an article about “A Study on Fresher’s Aspiration in Job Seeking Reference with Madurai College Students”, in Puthiya Thalaimurai magazine, 10-August-2012.
- 13) Published an article about “A Study on Savings and Investment Attitude of Middle Class People in Madurai District”, in Puthiya Thalaimurai magazine, 21-September-2012.
- 14) Published an article about “A study on Attitude and Behaviors of Middle Class Home Makers in Madurai District”, in Puthiya Thalaimurai magazine, 19-October-2012.
- 15) Having Youtube channel with more than 70 Videos (related to education, trekking, my speech, dubsplash and cooking).

Annexure V

Funds Applied

- 1) Applied ATAL FDP entitled “Transforming Healthcare with AI: Advancements, Challenges, and Opportunities” in the year May 2024. **Application No: 1714730372**
- 2) Applied VGST FDP entitled “Clinical Intelligence: Exploring and Computation with AI tools” in the year June 2024. **Application No: VRN/003358/23-24**
- 3) Applied VGST Project entitled “AI-Assisted Throwball Pattern Analysis: A Novel Approach to Optimizing Student Well-being and Academic Excellence” in the year June 2024. **Application No: VRN/003466/23-24**

Annexure VI

Awards, Honors and Prizes (12 Nos)

- 1) Being an Indian examiner for doctoral committee in various universities.
- 2) Secured 8th position based on IRINS among 414 faculties in The American College from 2019 to 2023.
- 3) Subject Expert of Board of studies in Dept. of BCA at Kongu College of Arts and Science, Perundurai, Erode on 13.06.2022 & 06.06.2023.
- 4) Subject Expert of Board of studies in Dept. of Commerce (CA) at Mannar Thirumalai Naicker College, Madurai on 01.04.2022.
- 5) Acted as a resource person in UGC sponsored three days FDP on Innovative Teaching-Learning Strategies for Modern Pedagogy organized in Ayya Nadar Janaki Ammal College, Sivakasi on 21.09.2021.

- 6) Acted as a resource person in 5th International Colloquium On Development and Hosting of E-content conducted in KSR College of Arts and Science for Women, Tiruchengode on 12.12.2019.
- 7) Received award for publications in Awards of Excellence category at Arul Anandar College in the year 2019.
- 8) Subject Expert of Board of studies in Dept. of Networking at Subbalakshmi Lakshmipathy College of Science, Madurai from 2019 to 2021.
- 9) Received appreciation certificate from the president of Subbalakshmi Lakshmipathy College of Science for research activities on 13th Feb 2016.
https://www.youtube.com/watch?v=l82_yuCP8j4
- 10) Received Best Teacher Award twice in Subbalakshmi Lakshmipathy College of Science in the year of 2013 and 2015.
- 11) Recognized as Journal Reviewer of "Education Research", ISSN: 2141-5161, published by International Research Journals, New Jersey, USA.
- 12) Resource Person of FDP conducted on 09-08-2014 in Subbalakshmi Lakshmipathy College of Science, Madurai.

Annexure VII

Publication of Books (15 Nos) (All Books are available in amazon.in)



S.No	Book Name	ISBN	Publisher	Year
1	WhatsApp Galatta	NA	Naphlin Publications, Madurai	2021
2	Engal Asiriyar PK sir	9789353827960	Naphlin Publications, Madurai	2020
3	C++ Programming through Memes	9789353826123	Naphlin Publications, Madurai	2019
4	Operating System Concepts through Memes	9789353512743	Naplin Publications, Madurai.	2019
5	Into the Wild: Energy Efficient Research	9789352670741	Naplin Publications, Madurai.	2019
6	WhatsApp Vaasippugal	9789352815463	Naplin Publications, Madurai.	2019
7	Vagupparai Kathaigal	9789353464332	Naplin Publications, Madurai.	2018
8	My Research Begins with 3G Networks	9789352653386	Naplin Publications, Madurai.	2016
9	Origin of Modern Research	9789351263562	Naplin Publications, Madurai.	2014
10	Environ Bits & Bytes	9789351269175	Naplin Publications, Madurai.	2013
11	GSM Projects with C#	9789351269199	Naplin Publications, Madurai.	2013
12	Manavar Panbhuk Kathaigal	9789350877098	Naplin Publications, Madurai.	2012
13	Mastering C#	9789350870686	Naplin Publications, Madurai	2012
14	Exploring C#.Net	9789350870679	Naplin Publications, Madurai	2011
15	C#.Net For Beginners	9789380487069	M.S.K Publications, Salem.	2010

Annexure VIII

Editorial (5)

- 1) Shaping the Digital Future: From Algorithms to Intelligence, Editors: N.Revathi and S.Pandikumar, ISBN (India): 978-81-980647-6-9 Publisher: QTanalytics® India, March 2024

- 2) “Innovations and Trends in Modern Computer Science Technology – Overview, Challenges and Applications”, Editors: S.Pandikumar, Manish Kumar Thakur, ISBN (India):978-81-980647-5-2 Publisher: QTanalytics® India, November 2024
- 3) “Innovations in Medical Research through AI, ML, and IoT Synergies”, ISBN: 978-81-966500-2-5, Editors: S. Pandikumar, Manish Kumar Thakur, Pallavi M O, Publisher: QTanalytics, 18.09.2024.
- 4) “Digital Ecosystems: AI, IoT, Cryptography, and Wireless Networking Unveiled”, ISBN: 978-93-340-8969-1, Editors: Dr.S.Pandikumar and Ms.Pallavi M O, Dept of MCA, Acharya Institute of Technology, Bangalore, Publisher: Dept of MCA, Acharya Institute of Technology, Bangalore.
- 5) “Integrating AI, Machine Learning, and IoT in Bioinformatics: Innovations in Biotech and Medical Research”, Editors: Shilpa Sivashankar, S.Pandikumar, Pallavi M O, ISBN (India): 978-81-966500-0-1, Publisher: QTanalytics, Oct 2024.

Annexure IX

Contribution to Student’s Publications (4 Nos)

The following books were published by my students under my guidance.

S.No	Book Name	Students Name/Class	Year
1	Environmental Facts and Impacts	III year B.Sc Computer Students, Subbalakshmi Lakshmi pathy College of Science	2013
2	C Programming – An Absolute Beginners Guide	II year B.Sc Computer Students, Subbalakshmi Lakshmi pathy College of Science	2014
3	Visual Basic .Net for Beginners	A B Vaishnavi, Sri Krishna Adithya College of Arts and Science	2018
4	C Library Functions	J.Liji Monisha, Arul Anandar College	2019

Annexure X

Research and Academic Activities

Particulars	No's	Drive Link
UGC/Peer Reviewed Journals Published	19	https://docs.google.com/document/d/1cFLfrl9nuhBl5bHOt58WmXwz_TyABVaW/edit?usp=sharing&oid=104217197264947150865&rtpof=true&sd=true
Paper Presented in International/National Conferences/Seminars	60	https://docs.google.com/document/d/1YxH09110tBe1rm8jGUGfwAAhpVfdCFJa/edit?usp=sharing&oid=104217197264947150865&rtpof=true&sd=true
Conference/Seminar/Workshop Attended	11	https://docs.google.com/document/d/1ttTU11sksjI1aM9ixLzTuAV_sf5E9X6W/edit?usp=sharing&oid=104217197264947150865&rtpof=true&sd=true
Guest Lecture Delivered	16	https://docs.google.com/document/d/1v4RZBaUNW1LpSsa_yqBYLU8IJTcog6dF/edit?usp=sharing&oid=104217197264947150865&rtpof=true&sd=true

Personal Profile:

Date of birth : 05-01-1983
Fathers Name : P. Savarimalai
Sex : Male
Marital Status : Married
Hobbies : HAM Radio, Book Writing, Cooking, Trekking, Dubs mash.

Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place:

Date :

(Dr.S.Pandikumar)