FACULTY PROFILE

Name of Teaching Staff / RMK ID	**Dr.A.PONMALAR/T1135**
Designation	**Associate Professor**
Department	**Artificial Intelligence and Data Science**
Date of Joining the Institution	08.06.2024

Qualifications	**Ph.D**	**M.E(CSE)**	**B.E(CSE)**

Total Experience	**Overall : 16**	**in RMK : 3**

Papers Published in Journal	**Overall : 33**	**After Joining RMK :—**

List of Papers Published	**International Journal Publications**

International Journal Publications

1. An intrusion detection approach using ensemble Support Vector Machine based Chaos Game Optimization algorithm in big data platform, Applied Soft Computing, vol. 116, no. 108295.(SCI Indexed) ISSN: 1568-4946, Year
2022, pp: 1-13 DOI: 10.1016/j.asoc.2021.1 08295 (Impact Factor: 8.263).

2. Hybrid Whale Tabu algorithm optimized convolutional neural network architecture for intrusion detection in big data, Concurrency and Computation Practice and Experience. SCI Indexed)ISSN:1532-0634 (Impact Factor: 2.175)

3. Deep Derma Scan: A Proactive Diagnosis System for Predicting Malignant Skin Tumor with Deep Learning Mechanisms. International Journal of Engineering Trends and Technology, Volume-70, Issue No-8, Year-2022, pp: 310- 17DOI:https://ijettjournal.org/archive/ijett-v70i8p232 (Impact Factor: 0.93)

4.Smartphone controlled fingerprint door look system (SCFDLS), Advances in Parallel Computing 39, pp. 400-407, 39, pp. 400-407 (Impact Factor: 0.43)

5. A multi-hop protocol using advanced multi-hop Dijkstras algorithm and tree based remote vector for wireless sensor network, Journal of Ambient Intelligence and Humanized Computing (SCI Indexed),2001 (Impact Factor: 6.163)

6. Efficient registration of land using block chain technology, International Journal of Recent Technology and Engineering 8(2 Special, 8(2 Special Issue 4), pp.77-820 (Impact Factor: 1.0)

7.Phishing attack in social network Environment, Journal of Advanced Research in Dynamical and Control Systems 10(14 Special Issue), pp. 960-972, 10(14 Special Issue), pp. 960-972 (Impact Factor: 1.20)

	International Conference Publications 1. Enhanced Crop Price Prediction & Forecasting System, International Conference on Computer Power and Communications ICCPC 2022, Proceedings pp:580- 585 2. Finding Missing Person Using Artificial Intelligence International Conference on Computer Power and Communications ICCPC 2022, Proceedings pp:562- 565 3. VSCODE-Code With Voice Using Natural Language Processing(NLP), International Conference on Computer Power and Communications ICCPC 2022, Proceedings pp:571- 574 4. IoT Based Automative Drive Recorder As Black Box, International Conference on Computer Power and Communications ICCPC 2022 , Proceedings pp:557- 561 5. Implementing Virtual Personal Assistant Through Artificial Intelligence Requirements, International Conference on Computer Power and Communications ICCPC 2022, Proceedings pp:552- 556 6. Machine Learning Based Smart Social Media Mining for Disorder Communication Detection, International Conference on Computer Power and Communications ICCPC 2022, Proceedings pp:575- 579 7. Detection and Providing Suggestion For Removal of Weeds using Machine Learning Techniques, International Conference on Computer Power and Communications ICCPC 2022, Proceedings pp:566- 570 8. Pickit be Safe With Us, International Conference on Computational Science and Technology, ICCST 2022 Proceedings pp:203- 210 9. Plane Detection and Product Trail using Augmented Reality, International Conference on Computational Science and Technology ICCST 2022 Proceedings pp:887- 892 10. Augmented Reality in Education: An Interactive Way to Learn, International Conference on Computational Science and Technology ICCST 2022, Proceedings pp:887- 892 11. Automatic Forensic Analysis of Criminal Navigation System using Machine Learning, International Conference on Computational Science and Technology, ICCST 2022, Proceedings pp:887- 892 12. Collaborative Product Recommendation System for E-Commerce Websites, International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES-2022 Proceedings 13. Face Detection for Secure Online Payment with Proxy Detection, International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2022, Proceedings
List of Papers Published	

14. IoT Enabled Inexhaustible E- vehicle using Transparent Solar Panel, 2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 – Proceedings

15. Analyzing Emotional Stability on Social Media Post using Machine Learning Approach, 2022 International Conference on Wireless Communications, Signal Processing and Networking, WiSPNET 2022 pp. 8-12,

16. Efficient Diabetic Retinopathy Detection using Machine Learning Techniques, Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022 pp. 1422-1426

17. Stroke Prediction System Using Artificial Neural Network, Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021 pp. 1898-1902

18. Transparent Solar Panel using Cloud, Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021 pp. 870-874

19. Mobile application for hospital management system, Proceedings - 5th International Conference on Intelligent Computing and Control Systems, ICICCS 2021 pp. 1434-1437

20. WBAN for e-Healthcare Application: Systematic Review, Challenges, and Counter Measures, 2021 International Conference on Computer Communication and Informatics, ICCCI 2021

21. FARM-A-CATION: A support for farmers, Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021 pp. 97-101

22. Analysis of Spam Detection Using Integration of Logistic Regression and PSO Algorithm, Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021 pp. 396-402

23. Convergence of Cloud and Fog Computing for Security Enhancement, Proceedings of the 5th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), I-SMAC 2021 pp. 1536-1541

24. Smart borderline Micro- Cannon using surveillance camera and sentry gun, Materials Today: Proceedings 46, pp. 3809-3812 46, pp. 3809-3812.

25. Volume Control feature for gesture recognition in Augmented and Virtual reality applications, Proceedings of IEEE InC4 2023 - 2023 IEEE International Conference on Contemporary Computing and Communications, 2023

Book Chapter
1. IoMT-based caring system for aged people in a post-COVID scenario, Internet of Medical Things in Smart Healthcare: Post-COVID-19 Pandemic Scenario 2023, pp. 207–224

National Journal Publications

1. "Bus Pass Automation System" at CiiT International Journal of Automation and Autonomous System Print: ISSN 0974 – 9659 & Online: ISSN 0974 – 9551,201

2. "Automatic Garbage Maintenance System" at IJERCSE Vol 3, Issue 9, September 2016 ISSN (Online) 2394-2320.

3. "Bus pass and ticket automation system" at IJCERT Volume 3, Issue 8, August-2016, pp. 389-393 ISSN (O): 2349-7084.

4. "An innovative parallel storage using proxy re-encryption" at International Journal of Latest Trends in Engineering and Technology Special Issue NCRTCC 2017, pp.014-018 e-ISSN: 2278-621X.

5. "Big data stream security and Privacy", IJEECS Journal Vol 6 issue 11, Nov 2017.

6. "Automatic Garbage Maintenance System" at IJERCSE Vol 3, Issue 9, September 2016 ISSN (Online) 2394-2320.

7. "Bus pass and ticket automation system" at IJCERT Volume 3, Issue 8, August-2016, pp. 389-393 ISSN (O): 2349-7084.

8. "An innovative parallel storage using proxy re-encryption" at International Journal of Latest Trends in Engineering and Technology Special Issue NCRTCC 2017, pp.014-018 e-ISSN: 2278-621X.

9. "Big data stream security and Privacy", IJEECS Journal Vol 6 issue 11, Nov 2017.

10. "Transparent and Immutable Taxing System Using Block Chain" in International Journal of Engineering, Applied and Management Sciences Paradigms(IJEAM)

11. "Intelligent Crime Analysis System using Pyspark" in International Journal of Psychosocial Rehabilitation, Vol. 24, Issue 05, 2020 ISSN: 1475-7192

12. "Decentralized E-Voting System Based On Blockchain" in International Journal of Scientific Research in Engineering and Management (IJSREM), Volume: 05 Issue: 03 | March – 2021, ISSN: 2582-3930

13. "Decentralized E-Voting System Based On Blockchain" in International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 05 Issue: 03 | March - 2021 ISSN: 2582-3930.

14. "Expert Skin Disease Identification System Using Machine Learning", Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 5, 2021, Pages. 2193 – 2197.

15. "ENHANCED HEALTH RECORD SHARING USING BLOCKCHAIN", Turkish Journal of Physiotherapy and Rehabilitation; 32(3) ISSN 2651-4451 | e-ISSN 2651-446X

Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 33	After Joining RMK :-NIL
Ph.Ds / Projects Guided	Ph.Ds Guided : -Nil	Student Projects Guided :30

Books Published :	Count :1	
	List :1 **Book Published** 1. Data Structures, Charulatha Publications,ISBN No. : 978-93-5577-844-4	

Patents	**Published Count :4**	**Granted Count :1**
	1.202041051703 Auto Navigation Drone System 27-11-2020 FER submitted 2.2021100879(AusPat) Deep Learning Based Temporal Recommendation with Reduced User Privacy Concern in Cloud Environment 22-04-2021, Granted 3.202141041804 Effective Smart Stick For Assisting Blind People With Alert Based Object Identification And Recognition Of Route Using IoT 06-09-2021 Published 4.202141059363 Categorization Of Communication Networking Protocol On Malicious Network Traffic Mechanism Using Mac 20-12-2021 Published 5.202241019847 Analysis of Medical Data Mining and Decision Support System based on the Medical Internet Integration 1-4-2022 Published	

Professional Memberships	**Count :2**	
	ISTE **CSI** **IAENG**	

Consultancy Projects Completed	**Count :Nil**
Awards Received	**Count :3** **Received Best Performance faculty award in the AY2018-2019** **Received Researcher Award in contributing more number of publications in the AY 2022-23.** **Awarded the certificate of recognition on 31st July 2024 in appreciation of publishing her research in a Q1 Journal during the course of her Ph.D. under the faculty of ICE by Centre for Research, Anna University.**
Research grants Received	**1. Sanctioned Rs 1,00,000 from IEDC-DST for the project titled "Auto Navigation Drone System" in the year 2018-2019. The Auto Navigation Drone System Project selected for DSCT Innovation Festival - 2020 and shortlisted to showcase the product in the "Technology Exhibition 2020 cum Training Programme", Anna University during 27th-29th February 2020.**
Orchid Link / ID	**https://orcid.org/0000-0002-5338-1877**
Google Scholar Link / ID	**ID : https://scholar.google.com/citations?user=H0FOABgAAAAJ&hl=en**
Vidwan Link / ID	**181768**
Research Gate Link / ID	**https://www.researchgate.net/profile/Ponmalar-Arulsamy/research**
Scopus Link / ID	**https://www.scopus.com/authid/detail.uri?authorId=57205556561**