Dr. M. Rajeshkumar

Assistant Professor
Department of Computer Science
School of Computing Science
KPR College of Arts Science and Research
Qualification   :M.C.A.,Ph.D.,
Experience   :Research: 6 Years, Teaching: 12 years
Research Areas :Digital Image Processing, Data Mining, Networking, Machine Learning, Deep Learning
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🎓 ACDEMIC PROFILE

Course	Name of the Institution	Board/ University	Year of Passing	Percentage of Marks
Ph.D	PKR Arts College for Women, Gobichettipalayam	BharathiarUniversity	2023	Commended
M.C.A	Sasurie College of Engineering, Perundurai	Anna University	2011	95.3%
B.C.A	Gobi Arts & Science College	Bharathiar University	2008	81%

🎓 ACADEMIC PROJECTS

S.No.	TITLE	SOFTWARE	DURATION
1.	An Efficient Crop And Weed Classification For Precision Agriculture Using Swarm Intelligence With Ensemble Learning Techniques	MATLAB	2016-2022
2.	Resequencing analysis of Stop-and-Wait ARQ for parallel Multichannel communication	Visual Studio.Net	2011
3.	Web Application for online Election System	ASP.NET and SQL Server	2008

🏆 AWARDS

- Received Academic Mastery Award in KPR College of Arts Science and Research during the year 2024.
- Received "100 % Result Producing award" in KPR College of Arts Science and Research during the year 2024.
- Received "**Anna University 13th Rank Award**" in Post Graduation during the year 2011.
- Received "Proficiency Award" in Post Graduation during the year 2011.
- Received "Proficiency Award" in Post Graduation during the year 2012.

PROFESSIONAL SERVICES

- Acted as a Mentor in HackOns – 2024, Jain University, Bangaluru on 4th October 2024.
- Acted as a Mentor in Socio –Tech Hackathon 2024 – KPR College of Arts Science and Research, Coimbatore.
- Served as a Resource person in the Department of Commerce(Banking & Insurance) at KPR College of Arts Science and Research on the topic 'Spread Modeling for Business' on 5th November 2024.
- Served as a Staff welfare Association coordinator in KPR College of Arts Science and Research during the year 2023-till.
- Acted as a Reviewer of Journal of Applied Research on Industrial Engineering during the year 2023.
- Served as a Coding and Programming Club coordinator in KPR College of Arts Science and Research during the year 2023- till.
- Served as a Department Time Table Coordinator in KPR College of Arts Science and Research during the year 2023 – till.
- Served as a Mentor of B.Sc CS students in KPR College of Arts Science and Research during the year 2023 – till.
- Served as a Skill Development Cell Coordinator in KPR College of Arts Science and Research during the year 2023 – till.
- Served as a External Examiner for End Semester Practical Examination and central valuation from 2013 onwards.
- Served as a Resource Person in the Department of Information Technology at Gobi Arts and Science College, Gobichettipalayam, on the topic 'Developing an E-Repository' on December 21, 2021.
- Served as a Resource Person in the Department of Information Technology at Sri Vasavi College, Erode, on the topic 'Web Portal Development' on January 12, 2019.
- Served as ISO Coordinator at Kaamadhenu Arts and Science College, Sathyamangalam, from 2014 to 2022.

- Member of the College Internal Quality Assurance Cell (IQAC) at Kaamadhenu Arts and Science College, Sathyamangalam from 2018 to 2022.
- Served as the First Criterion Coordinator at Kaamadhenu Arts and Science College, Sathyamangalam from 2018 to 2022.
- Served as the Coordinator of the Software Development Cell at Kaamadhenu Arts and Science College, Sathyamangalam from 2020 to 2022.
- ERP Help Desk Member, Member of ZOHO Desk, and E-Learning Club Coordinator at Kaamadhenu Arts and Science College, Sathyamangalam from 2018 to 2022.

RESEARCH PAPERS PUBLISHED

paper Published (Ugc care/Scopus)	: 09
National and International Conference	
Paper Presented	: 06
National Conference	: 04
Book published	: 03
Events Organised	: 11
FDP Attented	: 11
Workshops/Seminars/Symposium	: 11
Project guided	: 126

PUBLICATION DETAILS

1. Published a paper titled *"Hybrid KNN Based Machine Learning Models for Short-Term Water Quality Prediction"* in the **Journal of Engineering and Technology Management** (October 2024), Scopus (ISSN: 0923-4748).
2. Published a paper titled *"Social Media Big Data Prediction Using Machine Learning Techniques"* in the **Journal of Systems Engineering and Electronics** (Volume 34, Issue 10, October 2024), UGC Care (ISSN: 1671-1793).
3. Published a paper titled *"Hybrid Elephant Herding Optimization Approach for Cluster Head Selection and Secure Data Transmission in WSN Using Hybrid Cryptography Techniques"* in **Data and Metadata** (2024; 3:366, doi: 10.56294/dm2024.366), Scopus Indexed, September 2024.
4. Published a paper titled *"EPCR: Energy Proficient Cluster-Based Routing Protocols in Wireless Sensor Networks"* in the **Indian Journal of Natural Sciences** (Volume 12, Issue 70, Pages 1-8, February 2022), Web of Science (ISSN: 0976-0997).
5. Published a paper titled *"Analysis of Different Crop Weed Classification Algorithms"* in the **International Journal for Research in Biotech and Microbiological Engineering (IJRBME)** (Volume 6, Issue 3, Pages 1-4, September 2022), UGC Care (ISSN: 2455-7951).

6. a paper titled *"Crop and Weed Classification Using Modified Convolutional Network"* in the **International Journal for Research in Science Engineering and Technology (IJRSET)** (Volume 8, Issue 7, July 2021), Peer Reviewed (ISSN: 2394-739X).

7. Published a paper titled *"Analysis of Different Algorithms for Efficient Crop and Weed Classification Approaches"* in the **International Journal of Computer Science Engineering and Technology** (Volume 7, Issue 5, Pages 1-12, May 25, 2021), UGC Care (ISSN: 2455-9091).

8. Published a paper titled *"An Efficient Crop and Weed Classification Using Ensemble Modified Convolutional Neural Network"* in the **Journal of Emerging Technologies and Innovative Research (JETIR)** (Volume 7, Issue 11, Pages 897-915, November 2020), UGC Care (ISSN: 2349-5162).

9. Published a paper titled *"Quad Histogram-based Color Feature Extraction and Modified Convolutional Neural Network for Weed Classification"* in the **Journal of Advanced Research in Dynamical & Control Systems** (Volume 12, Issue 4, Pages 85-96, March 6, 2020), **Scopus Indexed** (ISSN: 1943-023X).

NATIONAL & INTERNATIONAL CONFERENCE

1. Presented a paper titled *"Bioinformatics"* at the **International Conference on Advanced Computing (ICAC - 2024)**, organized by the Department of Computer Science, Bharathiar University, Coimbatore, on September 26, 2024.

2. Presented a paper titled *"The Role of Information and Communication Technologies in Higher Education"* at the **International Conference on Computational Science and Applied Mathematics**, held at VET Institute of Arts and Science, Thindal, Erode, on July 21, 2023.

3. Presented a paper titled *"IoT Healthcare Systems: Opportunities and Challenges"* at the **National Conference on Recent Trends in Information Technologies** (ISBN: 978-93-5768-610-5), held at Gobi Arts and Science College, Gobichettipalayam, on November 19, 2022.

4. Presented a paper titled *"Medical Image Processing Using Deep CNN"* at the **National Conference on Recent Trends in Information Technologies** (ISBN: 978-93-5768-610-5), held at Gobi Arts and Science College, Gobichettipalayam, on November 19, 2022.

5. Presented a paper at the 'International Conference on Recent Trends in Advanced Computing (ICRTAC-2019)' on 'Quad Histogram-Based Color Feature Extraction and Modified Convolutional Neural Network for Weed Classification,' organized by Erdoe Arts and Science College, Erode, on 13th and 14th December 2019.

6. Presented a paper at the 'International Conference on Recent Trends in Computer Technologies' (ISBN: 978-81-935734-7-1) on the topic 'Weed Detection in

Agriculture Using Image Processing Techniques,' organized by P.K.R. Arts College for Women, Gobi, on 16th August 2016.

7. Participated in the National Conference on "Consumer Protection (NCCP-2015) ",organized by Civil Supplies and Consumer Protection Department, Government of Tamilnadu, India, on 14th February 2015.

8. Participated in the National Conference on "Rural Agricultural Development in India: Challenges and Prospects," organized by the Indian Council of Social Science Research and Kaamadhenu Arts and Science College, Sathy, on 10th January 2014.

9. Participated in the National Conference on "Advanced Trends in Information Technology," organized by Department of Information Technology, Dr.N.G.P Arts & science college, Coimbatore on 21st February 2013.

10. Participated National Conference on "Contemporary Issues in Social Science Research", organized by S.N.R Sons College, Coimbatore on 28th January 2013.

Book Publication

1. Dr.M. Rajeshkumar, Published a book entitled *"Cook with PHP"*, by Charulatha Publications, Chennai, in December 2021 (ISBN: 978-819-5-53150-9).

2. Dr.M. Rajeshkumar, published a book titled *"Problem Solving and Python Programming"*, by Charulatha Publications, Chennai, in May 2022 (ISBN: 978-935-5-77078-3).

3. Dr.M. Rajeshkumar, Published a book titled *"Problem Solving and PHP Programming"*, by Charulatha Publications, Chennai, in June 2022 (ISBN: 978-935-5-77146-9).

Events Organized

1. Organized an **Industrial Visit to Robomiracle Technologies, Coimbatore** through the **Coding and Programming Club** of KPR College of Arts, Science, and Research, Coimbatore, on September 30, 2024.

2. Organized a **One-Day Workshop on "Leveraging AI Tools in Real-World Scenarios"** through the **Coding and Programming Club** of KPR College of Arts, Science, and Research, Coimbatore, on September 13, 2024.

3. Organized the **Guest Lecture on "Microprocessor Architecture: Evolution and Impact on Computing"** on October 22, 2024, at KPR College of Arts, Science, and Research, Coimbatore.

4. Organized the **Language and Communication Skill Enhancement Programme: Just a Minute** on August 14, 2024, at KPR College of Arts, Science, and Research, Coimbatore.

5. Organized the **ICT and Computing Skill Development on Computer Architecture** session on August 23, 2024, at KPR College of Arts, Science, and Research, Coimbatore.
6. Organized a **Workshop on Ethical Hacking** in collaboration with **Asia Pacific University of Technology and Innovation, Malaysia**, on July 31, 2024, at KPR College of Arts, Science, and Research, Coimbatore.
7. Organized the **National Level Intercollegiate Meet "Tech Blast - 24"** on February 21, 2024, with 440 students participating.
8. Organized an **Extension Activity on International Plastic Free Day** on July 3, 2023, at KPR College of Arts, Science, and Research, Coimbatore.
9. Organized the **Skill A Thon Program** in collaboration with **ICT Academy** from December 15, 2021, to December 20, 2021, with 450 students participating.
10. Organized the **National Level Workshop on Recent Trends in Information Technology** from July 12, 2021, to July 17, 2021.
11. Organized the **National Conference on Recent Technologies in Computer Science and its Applications** on February 21, 2019, with 250 papers received and published in the conference proceedings.

FDP Attended

1. Partcipated 12 days FDP on " **Machine Learning**" at KPR College of Arts Sciecnce and Research, Coimbatore, 2024.
2. Participated Five Days Faculty Development programme with hands on training in the topic "**Practicing Analytics with Data Science**" organized by School of Computing Science, CMR University, Bangaluru during 8th- 12th July – 2024.
3. Participated 4 days faculty Development Programme on "**Launch Pad: Igniting Entrepreneurial Success**" Karunya University, Coimbatore on 09.01.2024 to 12.01.2024
4. Participated 3 days facultydevelopment program on "**Stress Management**" ICT Academy on 12.12.2023 to 14.12.2023.
5. Particiapted in Seven days Faculty development programme on "Harmoney in Education : Navigating the current Generation Classroom", KPR College of Arts Science and Research, Coimbatore on 27.11.2023 to 04.12.2023.
6. Participated in one week online faculty development programme on "Research paper writing and publishing" Hi Learn Edutech Institute on 01.07.2023 to 07.07.2023
7. Participated in 5 days faculty development programme on "Research Tools and Methodologies" Sri Krishna Aditya College of Arts and Science, Coimbatore on 07.06.2023 to 13.06.2023
8. Participated in 4 days faculty development program on "Microsoft Azure Data Fundamentals" organized by ICT Academy during 28.03.2022 to 30.03.2022

9. Participated in 5 days faculty development program on Fundamentals of RPA organized by ICT Academy during 04.10.2021 to 08.10.2021
10. Participated in 6 days online faculty development programme on "Digital Teaching Methods in Higher Education" organized by Hindustan College of Arts and Science, Coimbatore during 23.08.2021 to 28.08.2021
11. Participated in 5 days faculty development programme on "Creative Thinking (Online Live FDP). organized by ICT Academy during 07th June 2021 to 11th June 2021

WORKSHOP, SEMINAR & SYMPOSIUM

1. Participated in a **Guest Lecture on "All India Survey in Higher Education"**, organized by Gobi Arts and Science College, Gobichettipalayam, on December 31, 2020.
2. Participated in the seminar on **"Role of IQAC in Higher Education Quality Enhancement"**, organized by Gobi Arts and Science College, Gobichettipalayam, on January 29, 2020.
3. Participated in SWAYAM Orientation Workshop for SWAYAM Mentors organized by Bharathiar University, Coimbatore on 16th October 2019.
4. Participated in NAAC Sponsored One Day National Level Workshop on" Awareness on Revised NAAC Norms and Procedure" organized by SNMV College of Arts and Science, Coimabatore on 17th Auguest 2019.
5. Participated in the **ICSSR Sponsored National Seminar on "Cybercrime on Social Media: Challenges, Prevention Techniques, and Cyberlaw"**, organized by P.K.R. Arts College for Women, Gobi, on August 7-8, 2019.
6. Participated in the **National Seminar on "Progressive Initiatives by NAAC for Quality in Higher Education Institutions"**, organized by P.K.R. Arts College for Women, Gobi, on March 1, 2019.
7. Participated in One Day National Level Workshop on "Building Real World Applications in AWS & PYTHON" organized by AJK College of Arts and Science, Coimbatore on 25th February 2019.
8. Participated in a **Two-Day Faculty Development Programme on "Video Lesson Making for MOOCs"**, organized by Sankara College of Arts and Science and Commerce, Coimbatore, on January 5, 2019.
9. Participated in the **International Seminar on "Applications and Challenges in Data Mining"**, organized by Bharathidasan College of Arts and Science, Erode, on August 24, 2017.
10. Participated in the **National Level Seminar on "Quality Parameters in Higher Education"**, organized by Rathinam College of Arts and Science, Coimbatore, on January 8, 2016.

11. Participated in the **National Level Seminar on "A Sustainable Development Towards Innovative Process"**, organized by the Department of Commerce (CA) and IT, Kaamadhenu Arts and Science College, Sathy, on February 10, 2011.

Teaching:Subjects Taught

♦ Image Processing, Object Oriented Programming, Data Mining, Networking, C, C++, C#, HTML, JAVA, Java Script, VB Script, ASP.NET, VB.NET, MATLAB, PYTHON, Multimedia, WEKA, Computer Graphics with Multimedia, Data Structures, Linux and Shell Programming, Internet of Things, Introction to Information Technology, Web technology, Sofwtare Testing.

acdemic Networks

Google scholar	https://scholar.google.com/citations?user=7X2HPJEAAAAJ&hl=en&authuser=2
ORCID	https://orcid.org/0009-0001-2411-2790
Scopus	https://www.scopus.com/authid/detail.url?authorId=57216920312
VIDWAN	https://vidwan.inflibnet.ac.in/myprofile/518893