

Dr. B.M. Rajesh

Qualification: M.Sc., MBA., DIM., PGDCA, M.Phil., Ph.D.,

Experience : Teaching - 19 Years 3 Months | Research - 12 Years

Area of Specialization: Networks & Data Structures



+91 9865286763



rajenlight@gmail.com

Linked in <https://www.linkedin.com/in/dr-b-m-rajesh-52133a64/>



Work Experience

Institution	Affiliation	Department	Duration	No. of Years & Months
Dr. N.G.P. Arts & Science College (Autonomous)	Associate Professor	Computer Science	Dec 2019 – Present	5 Years, 11 Months
Shri Nehru Maha Vidyalaya College of Arts & Science	Assistant Professor & Head	Information Technology	June 2007 – Oct 2019	12 Years, 4 Months
The International School Bangalore (TISB)	Teacher – IB & IGCSE	Computer Science	May 2006 – April 2007	1 Year

Academic Qualifications

Degree	Branch	Institution/University Name	Year of Completion
Ph.D.	Computer Science	Bharathiar University, Coimbatore	2024
M.Phil.	Computer Science	Bharathiar University, Coimbatore	2014
MBA	Systems	Periyar University	2009
M.Sc.	Computer Technology	Coimbatore Institute of Technology, Coimbatore (Anna University)	2006
B.Sc.	Computer Science	Govt. Arts College, Coimbatore	2004

Ph.D – Highly Commented by Foreign Examiner

Additional Qualifications

Dip/Cert.	Area	Awarded Institute / Org	Year of Completion
Diploma	DIP	AFJA	2005
PG Diploma	PGDCA	NCIT	2004

Online Courses Completed

- NPTEL Course in Computer Systems - 2021
- NPTEL Course in Cloud Computing - 2020
- Infosys Spring Board – Cloud Computing, Power BI and Cyber Security

Research Guidance

Programme	No. of Scholars
	Completed
M. Phil.	3

Research Publications

- 1) Dr. B.M. Rajesh et al., **Delay-Tolerant Mobile Internet Services in Rural and Remote Areas, Journal of Internet Services and Information Security (JISIS)**, volume: 15, pp. 200-217, Published: August 30, 2025, ISSN: 2182-2069 / E-ISSN: 2182-2077 - **Scopus Q2**
- 2) Dr. B.M. Rajesh et al., **A COVID-19 Monitoring System Based on IOT and Utilizing a Hybrid Deep Learning Model**, Adalya Journal, Volume 13, Issue 6, June 2024, ISSN : 1301-2746, DOI : 10.37896/aj13.6/001
- 3) Dr. B.M. Rajesh, **Improved Social Spider Optimization (ISSO) Based Cluster Head Selection And Fault Detection Using Convolutional Neural Network (FDCNN) in Wireless Sensor Network (WSN)**, Adalya Journal, Volume 13, Issue 5, May 2024, ISSN : 1301-2746, DOI : 10.37896/aj13.5/015
- 4) B.M. Rajesh et.al , **User Engagement in Mobile Applications: Modeling and Predicting**, Journal of Mobile Computing, Communications & Mobile Networks, Volume 10, Issue 3, January 11, 2024, ISSN: 2349-901 , DOI (Journal): 10.37591/ JoMCCMN
- 5) B.M. Rajesh et.al , **Safeguarding Data and Networks from Cyber attacks with Advanced Technology and User Awareness**, Journal of Network Security, Volume 11, Issue 3, January 05, 2024, ISSN: 2395-6739 (Online) ISSN: 2321-8517 (Print), DOI (Journal): 10.37591/ JoNS

- 6) B.M. Rajesh, **The Future of Cloud Computing and its Potential Impact on Business, Recent Trends in Parallel Computing**, Volume 10, Issue 3, December 2023, ISSN: 2393-8749, DOI (Journal): 10.37591/RTPC
- 7) B.M. Rajesh et.al , **Objectives of Chandrayaan 1, Chandrayaan 2 and Successful Landing of Chandrayaan 3 on Lunar Surface, Research & Reviews: Journal of Space Science & Technology**, Volume 12, Issue 2, 2023, ISSN: 2321-2837 (Online) ISSN: 2321-6506 (Print), DOI (Journal): 10.37591/RRJoSST
- 8) B.M. Rajesh ,**Shell Scripting with Shell Programming in Unix System Software and Graphical User Interfaces**, Journal of Advances in Shell Programming, Volume 10, Issue 2, 2023, ISSN: 2395-6690, DOI (Journal): 10.37591/ JoAS
- 9) B.M. Rajesh et.al, **Overview of Database Management Systems: Components, Abstraction, and Applications**, Journal of Advanced Database Management & Systems Volume 10, Issue 3, 2023, ISSN: 2393-8730, DOI (Journal): 10.37591/ JoADM
- 10) B.M. Rajesh et.al, **An Integrated Platform for Remote and Collaborative Augmented Reality and Virtual Reality of Artificial Intelligence Using AI Tools**, Journal of Advancements in Robotics, Volume 10, Issue 2, 2023, November 28, 2023, ISSN: 2455-1872, DOI (Journal): 10.37591/ JoARB
- 11) B.M. Rajesh et.al, **The Role of Advanced Wireless Technologies in the Evolution of 5G and Beyond**, Journal of Communication Engineering & Systems, Volume 13, Issue 2, 2023, October 31, 2023, ISSN: 2249-8613 (Online) ISSN: 2321-5151 (Print), DOI (Journal): 10.37591/ JoCES
- 12) B.M. Rajesh et.al, **Forthcoming Technological Breakthroughs in the Metaverse Development** Journal of Web Engineering & Technology DOI (Journal): 10.37591/ JoWET Volume 10, Issue 2, 2023, October 23, 2023, ISSN: 2455-1880
- 13) B.M. Rajesh, **Data Science: Domains, Process, Roles and Responsibilities**, Journal of Advanced Database Management & Systems, Volume 10, Issue 2, 2023, ISSN: 2393-8730, DOI (Journal): 10.37591/JoADMS

- 14) B.M. Rajesh et.al, **Transforming-learning-experience-and-leveraging-AI-for-education**, Journal of Intellectual Property Rights and Law, September 2, 2023, ISSN: 2182- 0742 DOI (Journal): 10.37591/ JIPRL
- 15) B.M. Rajesh et.al, **A Comparison of NoSQL and Relational Database Management Systems (RDBMS)**, International Journal of Data Structure Studies, Volume 1, Issue 1, 2023, August 23, 2023, DOI (Journal): 10.37591/ IJDSS
- 16) B.M. Rajesh, **The Past, Present, and Future of Power Conversion Technologies for Computer, Networking, and Telecom Power Systems**, International Journal of Information Security Engineering, Volume 1, Issue 1, 2023, ISSN : 2324-6306, DOI (Journal): 10.37591.
- 17) B.M. Rajesh¹, Antony Selvadoss Thanamani², **Adaptive weight butterfly optimization algorithm (AWBOA) based cluster Head selection (CHS) and optimized energy efficient cluster based scheduling (OEECS) approach in wireless sensor networks (WSN)**, International Journal of Systems Assurance Engineering and Management (IJSA).
- 18) B.M. Rajesh¹, Antony Selvadoss Thanamani², **Unix, Shell Scripting, and Shell Programming Concepts and Paradigm**, Journal of Advances in Shell Programming, Volume 8, Issue 2, 2022, January, 2022 ISSN: 2395-6690 DOI (Journal): 10.37591/ JoASP
- 19) B.M. Rajesh¹, Antony Selvadoss Thanamani² , **Bug Tracking Tools- Analysis on System Assurance and Testing** Journal of Open Source Developments. Volume 8, Issue 2, January, 2022 ISSN: 2395-6704 DOI (Journal): 10.37591/ JoOSD
- 20) B.M. Rajesh¹, Antony Selvadoss Thanamani², **Bug Tracking System on Software Development with Operating Systems**, Journal of Open Source Developments Volume 8, Issue 3, 2021 Page No.-1-9, January, 2021, ISSN: 2395-6704, DOI (Journal): 10.37591/ JoOSD

- 21) B.M. Rajesh¹, Antony Selvadoss Thanamani², **For Analyzing Fraud in Credit Cards, Fuzzy Particle Swarm Optimization (FPSO) with Enhanced Support Vector Machine (ESVM) Classifier**, Volume 7, Issue 2, 2021, Page No. 1-12, November, 2021, ISSN: 2456-2351 DOI (Journal): 10.37628/ IJSCT
- 22) B.M. Rajesh¹, Antony Selvadoss Thanamani², **RSA Based Secret Key Generation And Authorization Method in Cloud Based VANETS**, ICTACT, Journal On Communication Technology, Volume: 12, Issue: 02, Page No : 2453 -2458, November, 2021, ISSN: 2229-6948, DOI: 10.21917/ ijct.2021.0362
- 23) B.M. Rajesh¹, Antony Selvadoss Thanamani², **An Improved Genetic Algorithm with a Min- Min Approach for Effective Task Scheduling in Cloud Computing**, International Journal of Algorithms Design and Analysis, Volume 7, Issue 2, 2021, Page No. -06- 12, December, 2021, ISSN: 2456-2351, DOI (Journal): 10.37591/ IJADA
- 24) B.M. Rajesh¹, Antony Selvadoss Thanamani², **Linux Operating System Performance Evaluation and States**, Journal of Advances in Shell Programming, Volume 8, Issue 2, 2021, Page No. 1- 9, December, 2021, ISSN: 2395-6690, DOI (Journal): 10.37591/ JoASP
- 25) B.M. Rajesh¹, Antony Selvadoss Thanamani², **Fuzzy Based Clustering Algorithm Rebroadcast with Ant Colony Based Cluster Head Selection for Minimizing the Routing Overhead in Mobile Ad-Hoc Networks**, Journal of Mobile Computing, Communications & Mobile Networks, Volume 8, Issue 2, 2021, Page no. : 1-16 December, 2021, ISSN: 2349-901X, DOI (Journal): 10.37591/ JoMCCMN
- 26) B.M. Rajesh¹, Antony Selvadoss Thanamani², **A Wireless Sensor Network Intrusion Detection System with Parameters and Distributed Trust**, International Journal of Wireless Network Security, Volume 7, Issue 2, 2021, Page No 16-27, December, 2021, ISSN: 2456-2351, DOI (Journal): 10.37591/ IJWNS
- 27) B.M. Rajesh¹, Antony Selvadoss Thanamani², **An Energy Efficient Cluster Head Selection With Optimal Path Selection Approach In Wireless Sensor Networks**, ICTACT, Journal On Communication Technology, Volume: 11, Issue: 04, Page No. 2203- 2209, December,

- 28) B.M. Rajesh¹ , Antony Selvadoss Thanamani² , **Hybrid Form of Cuckoo Search Algorithm With Hill Climbing Algorithm Based Optimization of Lifetime, Energy and Also Detection of Sybil Attack In WSN**, Mukta Shabd Journal, Volume IX., Issue VIII, Page No : 2105-2116, August, 2020,ISSN : 2347-3150
- 29) B.M. Rajesh¹, Antony Selvadoss Thanamani² , **Multinomial classification Identification for Domestic Violence Virtual Posts Based on Improved Convolution Neural Network (ICNN)**, Journal of Network Security ,Issue 3,Page No : 1-10,October, 2020, ISSN: 2395-6739
- 30) B.M. Rajesh¹, Antony Selvadoss Thanamani², **Enhanced Artificial Neural Network with Particle Swarm Optimization Algorithm for Detecting Distributed Denial of Service in Cloud**, International Journal of Algorithms Design and Analysis, Vol. 6: Issue 2, Page No. 1- 9, October, 2020, ISSN: 2456-2351, DOI: 10.37591/ IJADA
- 31) B.M. Rajesh. (2018). **“Sender And Receiver Based Efficient Broadcasting Algorithm In Mobile Ad Hoc Network (Manet)”**, International Journal of Engineering &Technology, Vol 7 (2.21) , pp. 242-250
- 32) B.M. Rajesh(2018). **“An Effectual Filter Based Gene Selection with DNCM-IPSO Algorithm for Diagnosis of Peripheral Blood Cells(PBCs) in Rheumatoid Arthritis (RAs)”**. International Journal of Pharmaceutical Research, Vol 10, No 4, pp 121-133.
- 33) B.M. Rajesh.(2017). **“Authentication of K-Nearest neighbor query on Road networks using Voronoi Diagram.”**, Journal of Advance Research in Dynamical & Control Systems, No.15, pp. 171-186.
- 34) B.M.Rajesh., **“Performance of Cloud Data Integrity Proofs in Cloud Storage System Using Cryptographic Key”**., International Research Journal of Engineering and Technology (IRJET)., Volume: 02 Issue: 09 | Dec-2015., ISSN: 2395-0072.
- 35) B.M. Rajesh., **“Collision Detection and Avoidance Using Modified Spin Protocol in Wireless Network”**, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4, Issue 12, December 2014, ISSN: 2277 128X.

Publications in Conference and Proceedings

- B.M. Rajesh¹, Antony Selvadoss Thanamani², Conjugate Gradient Based Solution for Joint Power Control and Scheduling Program Proceedings on Second International Conference on Research Trends in Computing Technology (ICRTCT), Nov 2021, Proceedings
- B.M. Rajesh¹, Antony Selvadoss Thanamani², PDTB-IDS: A Parameter and Distributed Trust Based Intrusion Detection, System for Wireless Sensor Network, International Conference on Emerging Trends in Science and Technology (ETIST-2021)", Oct 2021, Conference.
- B.M. Rajesh¹, Antony Selvadoss Thanamani², Particle Swarm Optimized Link for Disjoint Multipath Routing in Network Traffic, Mobile Ad-hoc Networks, International Conference on Emerging Trends in Science and Technology (ETIST-2021)", Oct 2021, Conference.
- B.M. Rajesh¹, Antony Selvadoss Thanamani², Fuzzy particle swarm optimization and enhanced support vector, Machine, International Conference on Emerging Trends in Science and Technology (ETIST-2021), Oct 2021, Conference.
- B.M. Rajesh¹, Antony Selvadoss Thanamani², A Framework and Disseminate Trust Based Detection System for Wireless, Sensor Network International Conference on Emerging Trends in Science and Technology ETIST-2021), Oct 2021, Conference
- B.M. Rajesh, Fuzzy Particle Swarm Optimization (FPSO) and Improved Support Vector Machine (ESVM) Classifier For Credit Card Fraud Recognition, Conference, Aug 2021, **Best Paper Awarded.**
- B.M. Rajesh¹, Antony Selvadoss Thanamani², Fuzzy Particle Swarm Optimization (FPSO) and Improved Support Vector Machine (ESVM) Classifier for Credit Card Fraud Recognition, International Conference on Computing and Intelligent System (ICCIS-2021) Aug 2021, Conference.
- B.M. Rajesh¹, Antony Selvadoss Thanamani², Hybrid Form of Cuckoo Search Algorithm with Hill Climbing Algorithm based Optimization of Lifetime, Energy and also Detection of Sybil Attack in WSN Proceedings of the 2nd International Multidisciplinary Conference on Information Science, Management Research and Social Sciences, (ICISMRSS – 2021), March 2021, Proceedings

Patent Rights

- B.M. Rajesh, **Sensor Based Hand Recognition System for Assisting People with Hearing Impairment IPR**, The Patent Office Journal No. 16/2022, Pg. 24858, 22-Apr-22.
- B.M. Rajesh, **Airport Route Analysis Using Machine Learning**, The Patent Office Journal No. 202441103368 A, Pg. 1642, 03-Jan -2025.

Book Chapters

- Dr.B.M.Rajesh, “**Artificial Intelligence and Machine Learning**”, Alpha International Publications, ISBN NO : 978-93-6908, Dec 2024.
- Dr. B.M.Rajesh, “**An Introduction to Quantum Computing**”, Prime International Publications, ISBN NO : 978-93-6010-459-7, Jan 2025.

Participation in Workshop/Seminar

- Two Days International Workshop on IoRT, NGM College, Pollachi, 02-Aug-21.
- State Level Workshop on Higher Education, CBM College, Coimbatore on 2-Nov-19.
- International Seminar on Technology Transfer, Pollachi College of Arts and Science, Pollachi, 12-Dec-19.

Participation in Faculty Development Programme

- Research Methodology and Pedagogy for Tertiary Education, Dr. N.G.P. Arts and Science College, 15 to 21-Jun-21.
- Emerging Research Trends in CS and Applications, Dr. N.G.P. Arts and Science College, Coimbatore, 22-Mar-21 to 26-Mar-21.
- Quality initiatives in Higher Education, Dr. N.G.P. Arts and Science College, Coimbatore, 13-Apr-20 to 20-Apr-20.
- PHP and MySQL, Dr. N.G.P. Arts and Science College, Coimbatore, 01 to 06-Feb-20.

Conference/Seminar/Workshop Organized

- One Day Workshop on AI in Python – Mr.Shiva – IIT (Resource Person)
- FDP on AI in Teaching Pedagogy – Mr. Shiva – IIT (Resource Person)
- National Level Conference Organized - TECHNOMANZER during 2017, 2018 and 2019.

*Invited Resource Persons during the Conference are : Dr.E.Balagurusamy, Member- UPSC
Dr. Senthil (Project Director – ISRO)*

Editorial/Review Board Member

- Reviewer - Scopus Journal
- Reviewer - International Journal of Manuscript Computer society
- Member - International Computer Science and Engineering Society (ICSES)
- Reviewer - Editorial Board Environmental Technology
- Reviewer - Journal of Ambient Intelligence and Humanized Computing.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
International Computer Science and Engineering Society	Member	Life Time

Administrative Contribution

- Media Center (LMS) – Coordinator
- International Conference and Workshops – Member
- NAAC – Criteria 1: Manager
- Placement Coordinator
- IQAC – Member
- Website In-charge (NAAC Uploading doc.)

Recognitions

Name	Organization	Purpose	Year
IIM – Bangalore, Makeintern	Indian institute of Management	Mentor	2025
Wipro Certified Faculty	WLIP- Wipro	Recognized as an Educator with global competencies among PAN India.	2021
Best Faculty Award	Coimbatore Welfare Association	Recognized as a Best Faculty Educator	2008,2009,2010

Training Programs

Sl. No.	Organization Name	Program Name	Duration	Beneficiary
1.	Dr. NGP ASC	WLIP (Wipro) Training for Students in Java	6 Months	60 Students
2.	Dr.NGP ASC	IIM-B Makeintern	30 Hours	51 Students

Facilitator

Courses handled for Undergraduate stream

- C, C++
- Java Programming, Python Programming
- R Programming
- Computer Graphics and Visualization
- Data Mining and Warehousing
- Web Programming
- Data Base Management Systems
- Operating Systems
- Software Engineering
- Clouds Computing
- Routing & Switching, Robotics
- Data Structures

Courses handled for Postgraduate stream

- Design and Analysis of Algorithms
- Software Testing
- Advanced Algorithms
- Big Data
- Web Designing
- Cloud Computing
- Computer Graphics
- Data Structures
- AR & VR