

RESUME



RAJKUMAR Y

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CAREER OBJECTIVE

To be an astute learner and committed to do a quality work with a professional attitude to contribute for the betterment of the organization and to achieve a professional growth in an effective way.

A BRIEF OVERVIEW

- Ability to work efficiently in a team as well as independently.
- Thorough understanding of the subject with ability to communicate the same to the students by demos, real-time examples.
- Resourceful in understanding Networking concepts, image processing and IT communication with analytical and mathematical abilities.
- Effective communicator with efficient relationship building, leadership qualities and interpersonal skills.
- Excellent oral and written communication.
- Being confident and appraising the abilities to reach my career goals.
- Experienced in counseling and motivating students to understand the values, skills and responsibilities to have a successful career in life.

WORK EXPERIENCE

1. Current Experience:

University: VIT-AP University, Amaravati, Andhra Pradesh

Period: Dec 2024 to Present

2. Previous Experiences:

VIT University (PhD Research Scholar (TRA)) Vellore, Tamil Nadu	DEC 2020-DEC 2024
Bannari Amman Institute of Technology (Autonomous) Sathyamangalam, Erode, Tamil Nadu	SEPT 2019-MAR 2020
Vignan University Guntur, Andhra Pradesh	AUG 2018-NOV 2019
Sri Krishna College of Engineering and Technology (Autonomous) Coimbatore, Tamil Nadu	MAY 2017-MAY 2018
AVS Engineering College Salem, Tamil Nadu	JUN 2015-APR 2017

BOOKS PUBLISHED

- A textbook on “**Compiler Design**” had been Published under **I. k. International Publishing House Pvt Ltd**, New Delhi. (2019), ISBN: 9789385909658.
- A book on “**A Practical approach to Fundamentals of Image Processing using MATLAB**” under **Lambert Academic Publishing**, UK (2018), ISBN: 9786139890590.
- A book on “**Edge based Active Contour Model for Semi-Transparent Images**” under **Lambert Academic Publishing**, UK (2018), ISBN: 9786139889914.
- A book on “**Dynamic Hierarchy Analytical Routing Protocol for VANETs**” under

- Lambert Academic Publishing, UK (2018), ISBN: 9786139884643.
- A book on “**PWM Soft-Switched Converter with Coupled Inductor**” published under Lambert Academic Publishing, UK (2018), ISBN: 9786139836321.

BOOK CHAPTER PUBLISHED

- A book chapter on “**Internet of Drones: Applications, Opportunities, and Challenges**” under CRC press. <https://doi.org/10.1201/9781003252085>.
- A book chapter on “**Empowerment of Internet of Things Through the Integration of Blockchain Technology**”. In: Ahmed, K.R., Hexmoor, H. (eds) *Blockchain and Deep Learning. Studies in Big Data*, vol 105. Springer, Cham. https://doi.org/10.1007/978-3-030-95419-2_7.

JOURNALS PUBLISHED

SCI & SCOPUS JOURNALS

- Jeyachandhiran, R., Ismailkhan, E., Rajkumar, Y., Manoj Kumar, P., & Jayashree, S. (2025). **Contention Based Single-Server Queuing Model for Efficient Data Transmission in VANETs Using Stochastic Process**. *Concurrency and Computation: Practice and Experience*, 37(27-28), e70454. (SCI IF-1.5)
- Subramanian, B., Sivakumar, L., Duraisamy, S., Sagayaraj, S., Yesuraj, R. and Mishra, N. K. (2025). **A blockchain-based authentication handover protocol for autonomous vehicle networks**. *Journal of Decisions and Operations Research*, 10(2), 302-324. doi:10.22105/dmor.2025.515463.1933, (SCI IF-0.533)
- Subramanian, B., Duraisamy, S., Kaliyaperumal, S. A., Yesuraj, R., Balakrishnan, S. and Sagayaraj, S. (2025). **Hypersoft sets with weight-based SVM for medical uncertainty modeling: A case study in heart disease diagnosis**. *Journal of Fuzzy Extension and Applications*, 6(3), 572-596. <https://doi.org/10.22105/jfea.2025.506825.1797> (SCI IF-3.2)
- Rajkumar, Y., Santhosh Kumar, S.V.N. **A Dickson polynomial based group key agreement authentication scheme for ensuring conditional privacy preservation and traceability in VANETs**. *Sci Rep* 15, 6211 (2025). <https://doi.org/10.1038/s41598-025-89208-5> (SCI IF-3.9)
- Rajkumar, Y., Kumar, S.V.N.S. **A lightweight privacy preserving distributed certificate-less aggregate based mutual authentication scheme for vehicular adhoc networks**. *Peer-to-Peer Netw. Appl.* 17, 1442–1466 (2024). <https://doi.org/10.1007/s12083-024-01636-8> (SCI IF-4.2)
- Rajkumar, Y., Santhosh Kumar, S.V.N. **A comprehensive survey on communication techniques for the realization of intelligent transportation systems in IoT based smart cities**. *Peer-to-Peer Netw. Appl.* 17, 1263–1308 (2024). <https://doi.org/10.1007/s12083-024-01627-9> (SCI IF-4.2)
- Rajkumar, Y., Kumar, S.V.N.S. **An elliptic curve cryptography based certificate-less signature aggregation scheme for efficient authentication in vehicular ad hoc networks**. *Wireless Netw* 30, 335–362 (2024). <https://doi.org/10.1007/s11276-023-03473-8> (SCI IF-3.0)
- Sripathi Venkata Naga, S.K.; Yesuraj, R.; Munuswamy, S.; Arputharaj, K. **A Comprehensive Survey on Certificate-Less Authentication Schemes for Vehicular Ad hoc Networks in Intelligent Transportation Systems**. *Sensors* 2023, 23, 2682. <https://doi.org/10.3390/s23052682>.
- Balakrishnan, S., Suresh Kumar, K., Balasubramanian, M., Rajkumar, Y. (2022). **Opinion Mining for Breast Cancer Disease Using Apriori and K-Modes Clustering Algorithm**. In: Rathore, V.S., Sharma, S.C., Tavares, J.M.R., Moreira, C., Surendiran, B. (eds) *Rising Threats in Expert Applications and Solutions. Lecture Notes in Networks and Systems*, vol 434. Springer, Singapore. https://doi.org/10.1007/978-981-19-1122-4_6
- Sekaran, Kaushik and Rajakumar, R. and Dinesh, K. and Rajkumar, Y. and Latchoumi, T.P. and Kadry, Seifedine and Lim, Sangsoon, **An energy-efficient cluster head selection in wireless sensor network using grey wolf optimization algorithm**, *Telkomnika (Telecommunication Computing Electronics and Control)*, Vol.18 (6), 2822 – 2833(2020). <https://doi.org/10.12928/TELKOMNIKA.v18i6.15199>
- Mahavishnu, V.C., Rajkumar, Y., Ramya, D., Preethi, M. (2019). **Efficient GWR Solution by TR and CA**. In: Santosh, K., Hegadi, R. (eds) *Recent Trends in Image Processing and Pattern Recognition. RTIP2R 2018. Communications in Computer and Information Science*, vol 1035. Springer, Singapore. https://doi.org/10.1007/978-981-13-9181-1_43

UGC JOURNAL

- Published Paper on “**Vertical Forests: Real Time Solution for the Upcoming rise of Air- Pollution in India**”, *International Journal of Environmental Sciences*, Vol. 6(12), 1-9, December (2017), ISSN 2319–1414.

PAPERS IN CONFERENCES

- R. Sai Somanadh, N. Rachabattula and R. Yesuraj, "**Leukemia Classification Using Ensemble Deep Learning Models**," *2025 International Conference on Sustainable Communication Networks and Application (ICSCN)*, Theni, India, 2025, pp. 1949-1953, doi: 10.1109/ICSCN67106.2025.11308372.
- Divyavarshini, A., & Rajkumar, Y. (2025, August). **An Enhanced Hybrid Approach for Colon Cancer Detection & Classification**. *2025 Third International Conference on Networks, Multimedia and Information Technology (NMITCON)*, BENGALURU, India, 2025, pp. 1-7, doi: 10.1109/NMITCON65824.2025.11188432.

PATENTS PUBLISHED

- An Indian Patent on "**Blockchain based Network Security Hub**" with the Patent Number "**216291**" has been published on "**18-12-2025**"
- A German Patent on "**Intelligent Charging Station based on Internet of Things**" with Patent Number "**B60L 53/60**" has been published on "**27-04-2023**".
- A German Patent on "**AI based Multimedia Interactive Whiteboard for Online Studies**" with Patent Number "**6359961**" has been published on "**22-04-2022**".
- An Indian Patent on "**IoT based Intelligent Gas Leakage Detection System**" with Patent Number "**45/2020**" has been published on "**6/11/2020**".

ACHIEVEMENTs

- Received funding on a "**Tamilnadu Science and Technology**" **from the Government of Tamilnadu for the project "IoT based Wheel-Chair Enhancement for the disabled" during the year 2017-2018.**
- Received "**BOOK PUBLICATION AWARD**" for the book published on **COMPILER DESIGN** during the year 2017-18.
- Received "**BEST PROJECT AWARD**" from **ISTE** for "**Code based Ticketing System**" project under my guidance.

Industrial Experience: ICICI BANK PVT LTD

Place: Hosur

Designation: Customer Service Officer

Duration: 26 Sep 2012- 23 May 2013

Responsibilities:

- Acted as a "**CASHIER**" for next three months tenure.
- Acted as "**Help desk Trainee**" for the first three months tenure.
- Processing transactions such as term deposits, retirement savings plan contributions, automated teller transactions, night deposits, and mail deposits.

Programming languages: C, C++, JAVA, R programming

Simulators: MATLAB, NS2

Designing Languages: Android Studio, Android SDK, MIT APP Inventor 2 Framework & Intel XDK

Scripting Language: Python

Language: Tamil, English

ACADEMIC INTERESTS

- Big Data, Data Analytics, Machine Learning
- Mobile Applications Development
- Algorithm Development
- Computer Networks and Image Processing applications
- Mobile and Vehicular ad-hoc Networks applications

EDUCATIONAL QUALIFICATION

DOCTORATE OF PHILOSOPHY (CSE)

VIT UNIVERSITY

2020-2024

VELLORE

M.TECH (COMOUTER SCIENCE AND ENGINEERING)

CGPA 7.7

KARUNYA UNIVERSITY

2013-2015

COIMBATORE

POST GRADUATE DIPLOMA IN BANKING OPERATIONS

CGPA 7.8

INSTITUTE OF FINANCE, BANKING & INSURANCE COIMBATORE	2012
B.TECH (INFORMATION TECHNOLOGY)	CGPA 9.3
PAAVAI ENGINEERING COLLEGE NAMAKKAL	2007-2011
HSC XII STANDARD	89%
ADHARSH VIDYALAYA HIGHER SECONDARY SCHOOL ANTHIYUR	2005-2007
SSLC XTH STANDARD	90%
GOVERNMENT HIGHER SECONDARY SCHOOL METTUR DAM	2004-2005

EXTRA QUALIFICATION

- Passed “**Post Graduate Diploma in Banking & Operations**” during the year 2012.
- Passed “**Mutual Fund Certification**” during the year 2012.
- Graduated “**B.Sc. Maths**” in correspondence during the year 2011-2013 from Annamalai University.

LANGUAGE PROFICIENCY:

- Passed “**IELTS Exam** ” with overall band score of about “7.0” on 24 Aug 2019.
- Passed “**IELTS Exam** ” with overall band score of about “6.5” on 14 Oct 2017.
- Passed “**English Proficiency Test**” with a overall score of “6.0” during my 2007-2008.

PERSONAL PROFILE

Father’s Name	: Yesuraj J
Occupation	: Fire Man
Marital Status	: Single
Age	: 33 yrs

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Place: Amaravati

Date:

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