

Dr. GOKULAKRISHNAN SIVANANDHAM



Mobile: +91 9626073903

Email: s.gokulakrishnaan@gmail.com / gokul.krishnan-cse@dsu.edu.in

Website: <https://gokulakrishnan.co.in> / <https://www.dsu.edu.in/dr-gokulakrishnan>

LinkedIn: <https://www.linkedin.com/in/gokulakrishnaan/>

Google Scholar: <https://scholar.google.co.in/citations?user=zGTAv2sAAAAJ&hl=en>

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57211396067>

Professional Summary

Innovative academician and researcher with 19+ years of experience in teaching, research, and innovation in Computer Science and Engineering. Specialized in cloud computing, machine learning, and AI-powered systems with 23 Indian patents, numerous publications, and national recognitions. Adept at leading initiatives in academia-industry collaboration, curriculum development, and mentoring students.

Professional Experience: 19.7 Years [as of 05/12/2025]

04-03-2024 to Present

Dayananda Sagar University, Bengaluru

Assistant Professor/CSE Department

06-10-2022 to 31-08-2023(0.11 Years)

Presidency University, Bangalore, Karnataka

Assistant Professor/CSE&IS Department

04-07-2014 to 24-06-2022(7.11 Years)

Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya [Scvmv Deemed To Be University], Kanchipuram, Tamilnadu

Assistant Professor/CSE Department

17-12-2009 to 02-07-2014 (4.6 Years)

Rajiv Gandhi College of Engineering, Sriperumbudur, Tamilnadu

Assistant Professor/IT Department

24-06-2005 to 23-11-2009 (4.5 Years)

Kanchi Pallavan Engineering College, Kanchipuram, Tamilnadu

Lecturer and HoD Incharge/IT Department

Education

Apr 2022 to Apr 2023

Post Doc - Artificial Intelligence and Data Analytics

Ton Duc Thang University & Industrial University of Ho Chi Minh City (A Public Research University), Vietnam

Jan 2013 to Dec 2021

Ph.D - Cloud Computing

Sathyabama Institute of Science And Technology (Deemed To Be University), Chennai, Tamilnadu

2009 to 2011

M.Tech - Information Technology 7.1 CGPA

Sathyabama Institute of Science And Technology (Deemed To Be University), Chennai, Tamilnadu

Jan 2001 to Dec 2005

B.Tech - Information Technology 74% First Class

Pallavan College of Engineering, Kanchipuram, Affiliated To Anna University, Chennai, Tamilnadu

1999 to 2001

HSC - TN State Board- 81.23%

Anderson Hr Sec School, Kanchipuram, Tamilnadu

1999

SSLC - TN State Board-83.23%

Pachiyappas Hr.Sec School, Kanchipuram, Tamilnadu

Subjects Taught (UG & PG)

- ✓ **Data Structures**
- ✓ **Data Science**
- ✓ **Human Computer Interface**
- ✓ **Amazon Web Services**
- ✓ **Cloud Computing**
- ✓ **Cloud Infrastructure and Management**
- ✓ **Machine Learning**
- ✓ **Big data Analytics**
- ✓ **User Interface Design**
- ✓ **C Programming for Problem Solving**

Memberships

- ✓ **Indian National Academy of Engineering (INAE) - Senior Individual Member**
- ✓ **IAENG Member – Membership No -299980**
- ✓ **The Society of Digital Information and Wireless Communications (SDIWC)-34358**

Patents - Published 23 Indian Patents

1. **An Artificially Intelligent System and Method for Integrated Irrigation Management [Patent Application No 201941043307]**
2. **A Method of an Artificially Intelligent Build Repository Management System [Patent Application No 202041026135]**
3. **System and Method of Cloud Computing Based Integrated Control for Green Houses [Patent Application No 202041026136]**
4. **A System and Method for Contactless Fingerprint Scanning and Attendance Process [Patent Application No 202041039460]**
5. **A System and Method for Hassle Free and Secure Monetary Transactions between Accounts [Patent Application No 202111000590]**
6. **An Artificial Intelligence Based Method for Smart Energy Optimization for Massive Internet of Things [Patent Application No 202141008044]**
7. **IoT for smart systems in next generation for emerging future technique of 5G challenges [Patent Application No 202141016407]**
8. **A Method for Designing and Auto-Emailing E-Certificates [Patent Application No 202141016449]**
9. **A Method for Efficient and Faster Machine Learning [Patent Application No 202141017893]**
10. **Deep Learning Based System and Method for Detection of Facemask [Patent Application No 202141026938]**

11. A System of Computer Vision and Machine Learning for Optical Character Recognition [Patent Application No 202141031333]
12. Sensor Fusion with Machine Learning for the Detection of Dangerous Driver Behavior [Patent Application No 202141051630]
13. Design System of Smart Healthcare Cloud-based IoT Model for Detecting and Preventing Medical Diagnosis Using Deep Learning [Patent Application No 202141059041]
14. Human Activity Tracking and Monitoring for Healthcare System using Faster Encryption of IoT Sensor [Patent Application No 202241001300]
15. IoT Driven Automated Water Quality Monitoring System for Smart City [Patent Application No 202241010029]
16. IoT Driven Automated Intelligent System using Eyeball and Gesture Control Smart Wheelchair for Disabled Person [Patent Application No 202241023674]
17. IoT Driven Deep Learning-based Real-Time Smart Framing of Maize Crop [Patent Application No 202241037488]
18. System for Detecting Parkinson's Disease and Method Thereof [Patent Application No 202341033108]
19. A System & Method for Secure, Long-distance Communication Between WSN & IoT Devices Using Blockchain Technology [Patent Application No 202341032227]
20. Harnessing AI and Data Mining for a Robust E-commerce Fraud Detection Model [Patent Application No 202341042489]
21. Enhanced Video Surveillance System for Police Cops to Monitor Unusual Activities [Patent Application No 202341042487]
22. AI-IoT Architecture for Early Detection of Health Abnormalities [Patent Application No 202541050135]
23. Dynamic Energy Management System for Self-Powered IoT Devices using Intelligent Energy Harvesting [Patent Application No 202541083566]

Indian Copyright

- Revolutionizing Industries: The Impact of AI and Machine Learning in Automation and Decision-Making-Date of ROC: 07/05/2025

Publications

2025

1. R. Praveen Kumar, Ravi Kumar, **S. Gokulakrishnan**, S. N. V. J. Devi Kosuru, Neeraj Shrivastava, Jyothi P 2025, Multi Objective Fuzzy Network Based Big Data Analytics System for Energy Consumption Prediction in Smart Grid , *Journal of Machine and Computing* [Scopus Indexed - Open Access]

2. Ravi Kumar,**S. Gokulakrishnan**,S. N. V. J. Devi Kosuru,R.Praveen Kumar,Thota Radha Rajesh 2025, "An efficient fuzzy logic and artificial intelligence based optimization strategy for bigdata healthcare system", Edelweiss Applied Science and Technology. [Scopus Indexed - Open Access]
3. S. N. V. J. Devi Kosuru, R.Praveen Kumar,Ravi Kumar,**S. Gokulakrishnan**,Abhisek Sethy, Velagapudi Sreenivas 2025, "A Comparative Assessment for Examining the Performance of Reconfigurable Multiband MIMO Antennas for Communication Systems", Journal of Information Systems Engineering and Management .

2024

4. J. Sebastian Nixon, Admasu Desalegn, J. Jeya A Celin, **S. Gokulakrishnan**, A. Senthil Kumar, 2024, Detecting Anomaly Intrusions in Digital Network Traffic Using Machine Learning Approach, *Journal of Systems Engineering and Electronics*

2023

5. **S. Gokulakrishnan**, Prasun Chakrabarti, Bui Thanh Hung & S. Siva Shankar, 2023, "An optimized facial recognition model for identifying criminal activities using deep learning strategy", International Journal of Information Technology, Springer. [SCI Indexed]

2021

6. Sumathy V, Brahmadesam Viswanathan Krishna, **S. Gokulakrishnan**, Harikrishnan G, 2021, "Blockchain based Public Distribution System", Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, Issue 3, June 2021: 2206-2212.

2019

7. **S. Gokulakrishnan**, J.M. Gnanasekar, 2019, "Efficient and Privacy for Data Integrity and Data Replication in Cloud Computing", International Journal of Innovative Technology and Exploring Engineering. [Scopus Indexed - Open Access]
8. **S. Gokulakrishnan**, J.M. Gnanasekar, 2019, "Data Integrity and Recovery Management under Peer to Peer Convuluted Fault Recognition Cloud Systems", Journal of Computational and Theoretical Nanoscience.

2018

9. **S. Gokulakrishnan**, 2018, "An Approach to E-Certificate Designing with Auto-Emailing", International Journal of Scientific Research & Engineering Trend [UGC Care]

2017

10. **S. Gokulakrishnan**, Dr. J.M. Gnanasekar, 2017, "Peer to Peer Convuluted Fault Recognition to Conquer Single Point Stoppage in Cloud Systems" International Journal of Pure and Applied Mathematics.

Conference Papers Presented

1. Senthil Kumar A, Senthilkumar J, Selvaraj Kesavan, **Gokulakrishnan S**, Nagaraj S 2025, A Comprehensive Deep Learning Framework for Physical Vehicle Fitness Testing and Document Validation [ieeexplore]
2. Senthil Kumar A, Selvaraj Kesavan, Rajkumar Bhojan, Kakarla Maanasa, **Gokulakrishnan S**, Rajasekaran Selvaraju,2025, An Efficient Elderly Fall Monitoring and Detection System using Machine Learning and Computer Vision [ieeexplore]
3. **S Gokula Krishnan**, Khushi S Rotti, Kushal Hali, Sanskruthi Kinagi, Rahul Joy Suneel S, 2025, Designing a Custom Linux Distribution for Improved Accessibility [Springer]
4. E. Padma, Gokulakrishnan S, R. Chithra, ArulKumar R, M. Kalaiselvi,2025, An Optimized Deep Learning based Framework for Cognitive State Classification using Brain-Computer Interface Technologies [Springer]
5. Vignesh Janarthanan, Saurabh Pratap Singh Rathore, Karthikayen A, Sripelli Jagadish, Pooja Bhardwaj, **Gokulakrishnan S**,2025, Enhancing Marketing Strategies through Big Data-Driven Customer Journey Mapping: An Analysis Using Machine Learning Algorithms [ieeexplore]
6. Gayatri Parasa, Deepak Kumar Nayak, Amit Gangopadhyay,M. Stanlywit,**S. Gokulakrishnan**, Priya Sharma, 2024, "Exploring the Role of Artificial Intelligence in Enhancing Chatbot Functionality"[ieeexplore]
7. Zahraa Hameed Jaber, Mohammed Ihsan,**S. Gokulakrishnan**, Hanaa Ali Alshaibani,Fatima H. Alsalamy, Hussein Al-Aboudy, 2024, "Distributed Self-Localization with Improved Optimization with Machine Learning in IoT Applications"[ieeexplore]
8. Ms. Priyanka P. Pawar, Mrs Shital Gajbhiye, Dr. Komal Dhanraj Deshmukh (Deosarkar) and **Dr. Gokulakrishnan S**,2024, Predictive Analytics for Heart Failure Outcomes Using Machine Learning Techniques[ieeexplore]
9. Ms. Anagha Deepak Kulkarni, Mrs. Pallavi S. Thakare, Mrs. Shubhangi Ravindra Shelar and **Dr. Gokulakrishnan S**,2024, Predictive Analytics in Animal Health: Leveraging AI and Machine Learning for Livestock Management[ieeexplore]
10. Sai Kumar Chilukuri, Nagendra Panini Challa, J.S. Shyam Mohan, **S. Gokulakrishnan**, R. Vasanth Kumar Mehta, A. Purnima Suchita, 2021, "Effective Predictive Maintenance to Overcome System Failures - A Machine Learning Approach"[Springer]
11. **S. Gokulakrishnan**,J.M. Gnanasekar 2020, "Data Integrity and Recovery Management in Cloud Systems"[ieeexplore]

12. M. Adithi Mookambal, **S. Gokulakrishnan**, 2020, "Potential Subscriber Detection Using Machine Learning"[Springer Nature]
13. **S. Gokulakrishnan**, 2018, "Use of Flipped Classroom in Data Structure Course", International Journal of Research Culture Society.

Books Authored

- Book titled “Bridging Human and Machine Intelligence Through Deep Learning” published by Pandit Publications. ISBN NO: 978-93-48908-81-0
- Book titled “Cloud Infrastructure Management” published by Charulatha Publications. ISBN NO:978-93-6260-465-1
- Book titled “Foundation of Data Science” published by Pandit Publications. ISBN NO: 978-93-93769-71-8
- Book titled "Virtualization Privacy Concerns in Cloud Computing Environments: A Taxonomy" published by Kalaivani Publications and indexed in Amazon Kindle Edition. Link: shorturl.at/djzIS ISBN NO: 978-81-954343-0-5
- Book titled “Machine Learning” published by Charulatha Publications. ISBN NO:978-93-5577-058-5

Book Chapter

- S. Vijayanand, S. Nagaraj, A. Senthil Kumar, R. Kirthiga, T. Godhandaraman, **Gokulakrishnan**, 2025, "Optimizing Natural language processing through convolutional neural networks and advanced word embeddings", CRC Press - Recent Trends in Intelligent Computing and Communication - March 2025
- **Dr. S. Gokulakrishnan**,2025, Integrating Blockchain, Cryptography, and Hadoop for Scalable and Secure Big Data Solutions: A Multidisciplinary Perspective, Published in Book Chapter The Future of Multidisciplinary Research in Global Development ISBN: 978-81-986630-9-2 Publication Date: March 2025

Proposals Submitted

- AICTE-RPS-Proposal submitted on 30-7-2025 -"Smart School Bags: Ergonomic and Interactive Backpack for Primary School Children" Collaboration with Dr.Ghanapriya Singh ,NIT Kurukshetra.
- IndiaAI–NCG CATCH Grant - September 25th 2025-"AI-Powered Early Cancer Screening & Triage Assistant".

Awards & Achievements

- AWS Academy Educator
- AWS Academy Cloud Foundations
- IBM-Coursera Generative AI Certificate
- National Cloud Champion Coordinator award in 2020 from ICT Academy

- University Level Coordinator for IRIS-ISRO in SCSVMV
- University Level Coordinator for Coursera
- Certificate from AICTE for Toyathon Primary Evaluator and Mapathon
- Certificate from IITB-AICTE for Mapathon Mentorship
- Certified Virtual Classroom Teacher
- 2 Internshala Certificate courses
- 8 ATAL AICTE Certificate courses
- 4 Hacker Rank Certificates
- 2 NPTEL Certificates-Cloud Computing and Google Cloud Computing
- 1 SWAYAM Certificate-Web Technology
- 2 AICTE-Edunet Certificates Building Web Development Solutions with Cloud Computing MERN Stack Web development
- 1 Certified as a Facilitator of Intel-AI for future Work force Program
- 2 AICTE Evaluated course Certificates
- Completed Java Oracle Certificate course conducted by NITTR and Oracle
- Completed 12 NITTR Certificate courses Certificates
- Completed 4 IITB Certificate courses Certificates
- MISSION-10X High Impact Award from WIPRO
- ICT Digital Badge Award
- "Teach the Teacher" Certificate from Headway Academy
- "Train the Trainer" Certificate from Learning Without Walls

Reviewer

- Reviewer for international conferences including ICCCEE 2023, INCSTIC 2025, and ACDSA 2026.

Invited Talks & Workshops

- Delivered expert lectures at 12 institutions.
- Organised / Coordinated 51 academic events.
- Attended 170+ FDPs, Workshops, and STTP Programs (International & National)

Guideship

- Serving as research guide for one Ph.D. scholar and one Postdoctoral researcher.

Personal Details

- Date of Birth : 03/06/1984
- Gender : Male
- Nationality : Indian
- Marital Status : Married
- Languages : Tamil, English
- Blood Group : O^{-ve}

DECLARATION

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



(Dr.S.GOKULAKRISHNAN)