

1. NAME AND ACADEMIC RANK: Dr. R.SHOBARANI, Ph.D.,

Professor



2. EDUCATION:

PhD Computer Science, Mother Teresa Women's University,
Tamilnadu,

2014 India.

M.Phil Computer Science, Annamalai University, Tamilnadu, India

M.C.A Computer Applications, Bharathidasan University, Tamilnadu, India

3. ACADEMIC EXPERIENCE:

- Present Professor, Department of Computer Science & Engineering, Dr. M.G.R. Education and Research Institute, Chennai, (Full time)
- 2017 Assistant Professor, Computer Science & Engineering Department, Dr. M.G.R. Education and Research Institute, Chennai, (Full time)
- 2010 Assistant Professor, Department of Computer Applications, Dr. M.G.R. Education and Research Institute, Chennai, (Full time)
- 2008 Junior Consultant, Department of Computer Science, Tamilnadu Open University, Chennai, (Full time)
- 2006 Lecturer, Computer Education, Lady Willingdon Institute of Advanced study in Education, Computer, Chennai, (Full time)

4. NON-ACADEMIC EXPERIENCE:

NIL

5. CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS:

- Participated FDP on “Amazon Web Services” from 22nd August 2022 to 27th August 2022 organized by Panimalar Engineering College with Brainovision solutions India pvt.ltd& All India council for Technical Education(AICTE)
- Participated one week FDP on “Next Generation Computing: Key Trends, Challenges and Opportunities organized by SRM Institute of Science and Technology, Ramapuram from 18.04.2022- 23.04.2022
- Certification of Participation- Two weeks International FDP on Recent Trends and Challenges in AI, IoT, and BlockChain organized by Eswari Engineering College held from 9th – 18th Feb 2022

- Participated in AICTE recognized Short Term Course on Machine Learning using Python from 28.03.2022 to 01.04.2022 (One Week) through ICT National Institute of Technical Teachers Training and Research, Chandigarh, MINISTRY OF EDUCATION, GOVERNMENT OF INDIA
- Certificate of participation- 30 days PYTHON PROGRAMMING MASTER CLASS @ Pantech e learning from 25.04.2022 to 24.05.2022

6. CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:
NIL

7. HONORS AND AWARDS:

- Excellence in Innovation Award(Research)-Female Category award given by Society for Intelligence system along with Mother Teresa women's University, 2023
- Resource Person for FDP, A Training programme for Preparation of UGC NET exam paper-I @ Dhanraj Baid Jain College, Chennai. (2023)
- Resource Person, St. Anne's Arts and Science College, Chennai, (2022)
- Chaired a technical session in "Recent Trends in AI & Data Science", ICON'22 (<https://icon.drmgrdu.ac.in/>), Dept. of Information Technology, Dr. M.G.R. University, April 21st 2022
- Reviewer in International Journal of Engineering and Technology Innovation
- Reviewer in Indian Journal of Science and Technology
- Reviewer in IGI Global Publisher
- Reviewer in IEEE conference on Feb 9 & 10th 2024, IC2PCT Conference, Galgotias University, Greater Noida, UP
- Reviewer & Session Chair in IEEE conference on IEEE Sponsored Trends in Quantum Computing & Emerging Business Technologies-TQCEBT 24". Pune, Maharashtra, India. On 21st March 2024

8. SERVICE ACTIVITIES:

- Coordinator - prepared the report for NAAC, NBA & ABET
- Department Coordinator - Criteria 2 incharge for NBA
- Department Coordinator - Criteria 6 incharge for NAAC
- Active participation in preparation of files for NBA and NAAC.
- **Member** of Board of Studies (PG•& UG) in Computer Science, Dr. M.G.R Educational and Research Institute, Chennai,

- Acts as an BOS (Board of Studies) internal member in Dept of Computer science and Engineering
- **Chief Superintendent** for conducted theory examination during the period 2024
- **Additional Chief Superintendent** for conducted Online Exams during 2022 to 2023
- External Expert in the Academic & Administrative Audit held in the dept. of B.Sc (Computer Science with Data Science) and B.Sc (Computer Science with Artificial Intelligence) on 21st June 2023 @ ShrimathiDevkunvarNanalal Bhatt Vaishnav College For Women (Autonomous)
- Member of Internal Quality Assurance Cell (IQAC)
- Member in ISO Cell
- Member of various Inspection Committees, Dr. M.G.R Educational and Research Institute, Chennai.

9. **PRINCIPAL PUBLICATIONS OF LAST FIVE YEARS (2019-2024):**

- Anomalous Human Action Monitoring in Video Images Using RPCA-MFTSL AND PSO-CNN, SN Computer Science, 5, 109 (2024), (Springer Nature) <https://doi.org/10.1007/s42979-023-02420-w>
- Spot-out Fruit fly algorithm with Simulated Annealing Optimized SVM for Detecting Tomato Plant Disease, Neural Computing and Applications, (2023) (Springer Nature SCI- Q1 Journal- Impact Factor-6), <https://doi.org/10.1007/s00521-023-09295-1>
- An Intelligent Deep Residual Learning Framework for Tomato Plant Leaf Disease Classification, International Journal of Electrical and Computer Engineering (IJECE), (2023)(Scopus Indexed Q4 Journal), Vol.14, No.3, June2024, pp. 3168~3176 DOI: <http://doi.org/10.11591/ijece.v14i3.pp3168-3176>
- Modeling and Detection Off loading-Based Denial-Of service Attack In Wireless Ad Hoc Network Using Bayesian Inference, International Journal of Progressive Research In Engineering Management And Science (Ijprems), Vol. 03, Issue 04, April 2023, pp : 100-103
- Deep Transfer Learning for Automated Diagnosis of Tomato Plant Leaf Diseases, Journal of Data Acquisition and Processing, vol. **38**, Issue 4, pp. 526-535. (UGC Care and Scopus Indexed)

- Towards objective dental caries detection : An Automated Diagnosis system for Panoramic images- A Study, presented in the National Conference on “Innovation in Engineering & Technology” at Narasu’s Sarathy Institute of Technology, Salem on 13.05.23

PATENT Published :

ApplicationNo.201941018719 of the Invention : Process of Improving energy of a node in Hostile Environment

Application No. 201941029682 of the Invention :Process on image for earthquake damage assessment

Application No. 20214103256 of the invention: Plant leaf disease detection using carnivorous plant intelligent behavior for solving global optimization problems

Application No. 202341002526ato Plant Disease Detection Using Hybrid Fruit Fly Algorithm With Simulated Annealing Optimized SVM

Application No: 20234100727;id Stratification Methodology for Classification and Estimation of Paddy seed quality and Germination rate using CMAC and Contextual Clustering

Book Publication:

- RK Publications, Information Security (Pages281), Edition 2022
- Lambert Publications, BETWIXT AND BETWEEN THE COMPUTER GRAPHICS, Edition 2023

Book Chapter:

- IGL Global Publisher- (2023) : Risk Detection and Cyber Security for the Success of Contemporary Computing –Chapter 15: Managing Cyber Threats in the Age of Technology: The Role of Risk Detection and Cyber Security (030523-060359)
- Chapter 19 : Securing the Future: The Vital Role of Risk Detection and Cyber Security in Modern Computing Systems (190423-051425)
- APPLE ACADEMIC PRESS(AAP) (2023) -Hybridization of Blockchain and Cloud Computing Overcoming Security Issues in IoT [The Big Picture of Blockchain Technology for Healthcare Applications], 9781774912164, January 2023, January 2023, Page No : CHAPTER 9

- IGL Global Publisher (2024) : New Approaches in Mobile Learning for Early Childhood Education, Chapter 7: Exploring the Digital Playground: A Comprehensive Review of Mobile Apps for Children
- IGL Global Publisher (2024): Enhancing Medical Imaging with Emerging Technologies - Chapter 17 Unraveling the Power of AI in Medical Imaging: A Deep Dive Into Image Processing (pages 287-314)

10. PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST FIVE YEARS:

- Total no Pursuing PhD Students: 4 Members (Part- time: 04)
- **PhD awarded** students : 7 members
- Doctoral Committee member in Vels University, Chennai (24 students)
- Doctoral Committee member in SRM University. (3 students)
- NMEICT coordinator for conducted workshops for eSim, Koha and Library Automation, PYTHON, C++, R workshop (2019)
- Scopus Author ID: 56820295900
- Orchid ID: orcid.org/0000-0003-0183-3867
- Researchgate score; 4.70
- ResearcherID: R-4594-2016