

## Faculty Profile

**Dr. M. Roshni Thanka, M.E., Ph.D**

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Department of Computer Science and Engineering  
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### Academic Background

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Degree	University	Year
Ph.D	Anna University	2018
M.E	Arulmigu Meenakshi Amman College of Engineering , Affiliated to Anna University	2008
B.E	Noorul Islam College of Engineering, Affiliated to Anna University	2006

### Courses Taught

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- Machine Learning Techniques
- Python Programming
- Web Technology
- Java Programming
- Object Oriented Programming
- Programming for Problem Solving
- Internet of Things
- Cryptography and Network Security
- C# and .NET Programming
- Principles of Compiler Design
- Operating System

### Research Interests

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- Machine Learning
- Deep Learning

- Internet of Things
- Cloud Computing

#### Most recent Publications

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- S. Prasanth, M. Roshni Thanka, E. Bijolin Edwin, V. Nagaraj, "Speech emotion recognition based on machine learning tactics and algorithms", Elsevier, Materials Today: Proceedings, February 2021
- M. Roshni Thanka, E. Bijolin Edwin, J. Shiny Duela, V. Ebenezer, "Automated Diagnosis of Skin Disease Multi-Class Image Classification Using Deep Convolution Neural Network", Green Engineering (JGE), Volume-10, Issue-10, October 2020.
- E. Bijolin Edwin, M. Roshni Thanka, Shiny Deula, "An internet of drone(IoD) based data analytics in cloud for emergency services", International Journal of Recent Technology and Engineering, 7(5), pp.263-267, 2019, ISSN: 2277-3878, Volume-7 Issue-5S2, January 2019.
- Shiny Duela, M. Roshni Thanka, E. Bijolin Edwin, "Improving reliability of Web Based Result Query System during Traffic", International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277 – 3878, Volume-8, Issue-2S5, July 2019
- M. Roshni Thanka; P. Uma Maheswari; E. Bijolin Edwin, "A hybrid algorithm for efficient task scheduling in cloud computing environment", International Journal of Reasoning-based Intelligent Systems, 2019 Vol.11 No.2, Available online: 15 May 2019.pp. 134-140, DOI: 10.1504/IJRIS.2019.099850
- E. Bijolin Edwin, P. Umamaheswari & M. Roshni Thanka, "An efficient and improved multi-objective optimized replication management with dynamic and cost aware strategies in cloud computing data center", Cluster Computing, Springer , ISSN 1386-7857, DOI 10.1007/s10586-017-1313-6, 21 November 2017
- M. Roshni Thanka, Dr. Uma Maheswari P, E. Bijolin Edwin, "An improved efficient: Artificial Bee Colony algorithm for security and QoS aware scheduling in cloud computing environment" DOI 10.1007/s10586-017-1223-7, Cluster Computing, Springer, October 2017. [IF:2.04]

#### Projects Guided

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- Melanoma Classification Using Deep Transfer Learning And Machine Learning Techniques
- Innovative Agricultural Information System with User Friendly Digital Assistance for Farmers
- Automatic Classification of Chronic Venous Insufficiency Using CNN
- Heart ECG Image Classification Using Deep Learning
- Elderly People Care and Monitoring Using CNN and ANN
- Prognostication of Diabetes Diagnosis Based On Machine Learning Tactics And Detection of Diabetic Retinopathy Using Artificial Intelligence
- Smart Blind Stick using AWS Lambda

- Monitoring Bedridden People Using Iot
- Intelligent IoT Based Plant Health Monitoring and Disease Detection System
- An efficient fusion based defogging
- Optimized and Secure Job Scheduling in Cloud Environment
- An Energy aware approach for Image compression using minimum precision
- Adaptive Resource Provisioning for read intensive multi-tier
- Secure and Privacy Preserving Keyword search in cloud Storage
- Securing Data in Cloud Storage through Interactive POP Protocol
- Competency Rank Based Load Balancing in Grid Networks
- A parallel Bi-Objective Hybrid Meta – heuristic for cloud Computing Systems
- Privacy Preserving Public Auditing for Secure Cloud Storage
- Privacy Enhanced Data Outsourcing in cloud
- Secure Overlay Cloud Storage with Access Control and Assured Deletion
- Security and Privacy for storage and Computation in cloud computing
- A Metaheuristic Cost Effective Task Scheduling of Large Programs in the Cloud
- A framework to obtain multi-performance in multitask workflow for dynamic scenario in cloud environment

#### Memberships in Professional societies

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- Life time member of Computer Society of India

#### Significant achievements:

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- Certification in Python for Data Science
- Certification in Getting Started with AWS Machine Learning
- Completed Oracle Certified Associate (**OCA**)
- Completed Oracle's Certified Professional Java SE Programmer (**OCPJP**)