

FACULTY PROFILE

1. Name of the faculty member / Industry

Researcher

: **Dr. S.ARIFFA BEGUM**

2. Designation

: ASSOCIATE PROFESSOR

3. Department

: Information Technology

4. Office Address with Contact Nos.

: K.L.N. College of Engineering,

Phone/Mobile/Email

Pottapalayam 630612, Sivagangai dt

Mobile : 9790245994

ariffa001@gmail.com

5. Anna University Ref. No. for

Supervisor Recognition

:

6. Working since (present employment)

:20-06-2025

7. Gender

: Female

8. Date of Birth & Age

: 12-02-1975 & 50

Particulars of Educational Qualification: (From Highest to lowest)

Category	Name of the Degree	Name of the University	Year of Passing	Specialization	% of Marks / Grades obtained	Mode Regular/ Part-time/ Distance/ week-end
PhD	Ph. D	Anna University, Chennai	2021	Information & Communication Engineering	Degree awarded	Regular
PG	M.E	Anna University, Chennai	2005	CSE	First Class with Distinction	Regular
PG	M.C.A	Madurai Kamaraj University	1998	CA	First Class	Regular
U.G	B.Sc	Madurai Kamaraj University	1995	Mathematics	First Class	Regular

Academic Experience:

Organization Name	Designation	From	To	Experience		
				Years	Months	Days
K.L.N College of Engineering, Pottapalayam, Madurai.	Associate Professor	20-06-2025	Till Date	-	5	7
Kalasalingam Academy of Research and Education, Krishnankoil, Virudhunagar, Tamilnadu, India	Associate Professor	01-06-2023	30-04-2025	1	11	-
Vaigai College of Engineering, Therkuthuru, Melur, Madurai	Associate Professor	September, 2022	April 30, 2023	-	7	-
Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar District, Tamilnadu,	Associate Professor	Jul,22, 2021	Nov,17, 2021	-	3	25
Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar District, Tamilnadu,	Associate Professor	Jan,01, 2011	May,21, 2011	0	4	20
Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar District, Tamilnadu,	Assistant Professor (Selection Grade)	Jul,01, 2010	Dec,31,2010	0	6	-
Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar District, Tamilnadu,	Assistant Professor	Jan,01, 2008	Jun,30,2010	1	6	-

Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar District, Tamilnadu,	Senior Lecturer	Jul,01, 2005	Dec,31,20 07	2	6	-
Sethu Institute of Technology, Pulloor, Kariapatti, Virudhunagar District, Tamilnadu,	Lecturer	Sep,15, 2000	Jun,30,200 5	4	8	15
Total				12	10	7

Publications:

1. Ariffa Begum, S., Askarunisa, A. Performance Analysis of Machine Learning Classification Algorithms in Static Object Detection for Video Surveillance Applications. *Wireless Pers Commun* 115, 1291–1307 (2020). <https://doi.org/10.1007/s11277-020-07627-1> (AU-Annexure1).
2. Nirmala, R., Begum, S.A., Selvanayagi, A. *et al.* VLSI implementation of an energy-efficient color image compressor using improved block truncation coding and enhanced Golomb-rice coding for wireless sensor networks. *J Supercomput* **80**, 24807–24834 (2024). <https://doi.org/10.1007/s11227-024-06311-6> (AU-Annexure1).
3. Ariffa Begum, S., Subbulakshmi, N., Vijayalakshmi, J., & Ananth Kumar, T. Quantum-informed AI: precision caloric assessment for optimal health through advanced nutrition analysis in lifestyle management. (**Book Chapter-Scopus Indexed**) *Exploring Intelligent Healthcare with Quantum Computing*, Vol , I , B 299-E 313, 2024, https://doi.org/10.1049/PBHE060E_ch15.
4. **Begum, Sheik Ariffa**, SubbulakshmiNammalwar, Jeyapal Vijayalakshmi, and Manju Vallabha. "Predictive HR: Ensemble & Deep Learning Methods for Strategic Employee Retention."

In 2024 *Third International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT)*, pp. 1-6. IEEE, 2024.

5. **S. A. Begum**, N. Subbulakshmi, B. A. Kumar, B. Ravichandra Reddy, Y. R. Teja Reddy and B. Manikanta Reddy, "IoT-based Pulse Rate Monitoring with Anomaly Detection and Automated Alerts," *2024 8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)*, Kirtipur, Nepal, 2024, pp. 212-217, doi: 10.1109/I-SMAC61858.2024.10714700.
6. **S. A. Begum**, N. Subbulakshmi, P. Sreenivasulu, K. S. Reddy, S. B. Jabiulla and G. Raju, "AI-Powered Weapon Detection for Enhanced Public Security," *2024 5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI)*, Tirunelveli, India, 2024, pp. 1385-1390, doi: 10.1109/ICDICI62993.2024.10810984.
7. **S. A. Begum**, N. Subbulakshmi, A. B. Reddy, B. A. Kumar, B. S. Kumar Reddy and B. M. Reddy, "WildGuard: Automated Barrier System for Animal Attack Prevention," *2024 3rd International Conference on Automation, Computing and Renewable Systems (ICACRS)*, Pudukkottai, India, 2024, pp. 440-446, doi: 10.1109/ICACRS62842.2024.10841601.
8. N. Subbulakshmi, **S. A. Begum**, B. L. Gari Archana and R. Chandru, "AI based Emotion Aware Music Composition using Spotify App," *2024 3rd International Conference on Sentiment Analysis and Deep Learning (ICSADL)*, Bhimdatta, Nepal, 2024, pp. 59-63, doi: 10.1109/ICSADL61749.2024.00015.
9. N. Subbulakshmi, **S. A. Begum**, R. Chandru and G. P. S. Kumar, "Object Localization Using Deep Neural Network with Pytorch," *2024 5th International Conference on Electronics and Sustainable Communication Systems (ICESC)*, Coimbatore, India, 2024, pp. 1289-1292, doi: 10.1109/ICESC60852.2024.10689788.
10. **S. A. Begum**, N. Subbulakshmi, N. C. Brintha, R. Chandru and P. S. Kumar, "Ambient-Assisted Senior Living with Disabilities in an Intelligent House using CNN Behavior

Prediction," 2024 *IEEE International Conference for Women in Innovation, Technology & Entrepreneurship (ICWITE)*, Bangalore, India, 2024, pp. 484-488, doi: 10.1109/ICWITE59797.2024.10503413.

11. N. Subbulakshmi, **S. A. Begum**, R. Venkata Vignesh and R. Chandru, "Asynchronous Event Driven Brain Teaser Using Node.js," 2024 *5th International Conference on Electronics and Sustainable Communication Systems (ICESC)*, Coimbatore, India, 2024, pp. 113-118, doi: 10.1109/ICESC60852.2024.10689905.
12. **S. Ariffa Begum**, Dr. A. Askarunisa, Vinod kumar B, Veerapandi M, Surya Narayana Moorthy T K, "Detection of Foreground Object for Video Surveillance Applications", *International Journal for Research in Applied Science & Engineering Technology(IJRASET)*, Volume 5, Issue III, March 2017, *ISSN: 2321-9653*.
13. **S. Ariffa Begum**, Dr. A. Askarunisa, N.Divya, "Unsupervised Video Anomaly Detection", *KARPAGAM JOURNAL OF ENGINEERING RESEARCH (KJER)*, Volume No.: II, Special Issue on IEEE Sponsored International Conference on Intelligent Systems and Control (ISCO'15)-pp-67-73.
14. **S. Ariffa Begum**, Dr. A. Askarunisa, N.Divya, "Analysis of Video Anomaly Detection Techniques", *International Journal of Applied Engineering Research*, *ISSN 0973-4562* Vol. 9 No. 20, 2014, pp 4518-4521.
15. **S. Ariffa Begum**, Dr. A. Askarunisa, "Performance Analysis of Various Key Frame Extraction Methods for Surveillance Applications", *International Journal of Emerging Technology and Advanced Engineering*, Volume 4, Issue 9, September 2014,pp 157-160.

It is certified that all the information provided are true to the best of my knowledge.

Signature of the Faculty