

Dr. J. Faritha Banu, M.E., Ph.D.,
Associate Professor & Dy. HoD (i/c CSE),
Department of CSE, CET, SRMIST,
Ramapuram Campus, Chennai.
Mail id: farithat@srmist.edu.in



Dr. J. Faritha Banu is working as Associate Professor & Dy. HoD (i/c CSE) in the Department of CSE at SRM Institute of Science and Technology, Ramapuram campus. She holds a Ph. D degree in the field of Computer Science and Engineering from Sathyabama University since 2015. She has 21 years of teaching experience with good programming skills. She is a recognized supervisor in SRMIST and guiding three scholars at present. She has published articles in reputed National and International Journals, Conferences and Symposiums. She is a Reviewer in several International Journals and Conferences.

Area of Research:

Artificial Intelligence, Cloud Computing and Networking

Selected Publications:

1. Padmapriya, S., Umamageswari, A., Deepa, S., & Faritha Banu, J. (2023). A novel deep learning based underwater image de-noising and detecting suspicious object. *Journal of Intelligent & Fuzzy Systems*, 45(4), 7129-7144. Doi:10.3233/JIFS-234002
2. Saraswathi, E., Farithabanu, J. Elumalai, S., Jahir Hussain, F.B. (2023). Utilizing deep convolutional neural networks for multi-classification of plant diseases from image data. *Traitement du Signal*, Vol. 40, No. 4, pp. 1479-1490. <https://doi.org/10.18280/ts.400416>.
3. Faritha Banu, J., Neelakandan, S., Geetha, B. T., Selvalakshmi, V., Umadevi, A., & Martinson, E. O. (2022). Artificial intelligence based customer churn prediction model for business markets. *Computational Intelligence and Neuroscience*, 2022. DoI: 10.1155/2022/1703696
4. J. Faritha Banu Mahajan, R. A., Sakthi, U., Nassa, V. K., Lakshmi, D., & Nadanakumar, V. (2022), "Artificial intelligence with attention based BiLSTM for energy storage system in hybrid renewable energy sources" *Sustainable Energy Technologies and Assessments*, 52, 102334. Snip : 1.535, IMF: 7.63, Doi: <https://doi.org/10.1016/j.seta.2022.102334>

5. J. Faritha Banu, S. B. Rajeshwari , Jagadish S Kallimani, S. Vasanthi, Ahmed Mateen Buttar, M. Sangeetha and Sanjay Bhargava (2022), “Modeling of Hyperparameter Tuned Hybrid CNN and LSTM for Prediction Model”, *Intelligent Automation & Soft Computing*, Tech Science Press, Tech Science Press, vol.33, no.3, Mar 2022(online), ISSN: DoI: 10.32604/iasc.2022.024176 .
6. D. Anuradha, R. Srinivasan, T. Ch. Anil Kumar, J. Faritha Banu, A. Kumar Singh Pundir et al., "Energy aware seagull optimization-based unequal clustering technique in wsn communication," *Intelligent Automation & Soft Computing*, vol.32, no.3, pp. 1325–1341, 2022. DoI: <https://www.techscience.com/iasc/v32n3/45907>.
7. Faritha Banu, J., Kirti, S., Archana, T., & Pandey, U. K. (2022), “Third-party enabled auditing for uniqueness-based integrity and data sharing with information hiding”, *International Journal of Health Sciences*, 6(S2), 9083–9091. <https://doi.org/10.53730/ijhs.v6nS2.7373>.
8. Sreelatha. P, J. Faritha Banu, T. Ch. Anil Kumar, D. Sugumar, Shailendra Kumar Rawat, Ahmad Jawad Niazi (2021), “Improved Clustering Using Deep Learning Modelon Water Resource Engineering”, *Bioscience and Biotech Research Communications*, Special Issue, E-ISSN: 2321-4007, vol.1, no.07, pp. 343-349 ,2021, DoI: <http://dx.doi.org/10.21786/bbrc/14.7.73>
9. Faritha Banu, J., Srividhya V, Senthamizhselvan R. and Revanth K, (2015), “Mobility based High Reliable Low Energy Cost Routing in Mobile Ad hoc Network (MANET)”, *International Journal of Applied Engineering Research* Vol.10, Issue 9, June 2015,ISSN 0973-4562, pp. 23255-23262
10. Faritha Banu, J. and Ramachandran, V. (2013), “An MPLS based Load Balancing Technique for VoIP flows”, *Information Technology Journal*, eISSN: 1812-5646, pISSN: 1812-5638, doi:10.3923/itj.2013.926.934, Vol. 12, No. 5, pp. 926-934.
11. Faritha Banu, J. and Ramachandran, V. (2013), “MPLS Based Adaptive Concurrent Multipath Packet Dispersion Architecture for VoIP Networks”, *Research Journal of Information Technology*, ISSN: 1815-7432, Vol. 5, No. 3, pp. 419-426.
12. Faritha Banu, J. and Ramachandran, V. (2012), “Multipath adaptive packet dispersion for voice applications”, *Journal of Computer Science*, Science Publications, ISSN: 1549 - 3636. doi:10.3844/jcssp.2012.454.459. Vol. 8, No. 4, pp. 454-459.

Patents:

1. Dr. Faritha Banu J, Mrs. Archana T, Dr. Shiny Duela J, Mr. M. Prabu, “Bluetooth based Communication Control Device for Electromechanical Appliances” Design patent No. 377408-001, 16/03/2023.
2. Dr.A.Umameswari, Dr. Shiny Duela J, Dr.S.Deepa, Dr.J.Faritha Banu, Dr. S.Suresh, Dr .B.Abirami, Ms.Menaka S, Dr.S.Lilly Sheeba, Ms.Archana T, Mr.Kingsly Stephen R, “Recognition of cyber-bullying on social media using (ML) machine learning approach”, Patent Journal, 17/02/2023. Application No.202341002315.
3. Dr. Faritha Banu J, Dr.C. Shanmuganathan, Mrs. Archana T, Mr. R. Kingsly Stephen, Artificial Intelligence based Traffic Light for Guiding Vehicle Traffic, Design patent No. 366303-001, 04/01/2023.
4. Dr.A.Umameswari, Dr. Shiny Duela J , Dr.S.Deepa, Mr.S P Maniraj, Mr. M.Prabu, Dr J Faritha Banu, Ms.Menaka.S, Dr.S.Suresh, Ms. S Visnu Dharsini, Mr. G. Ragu, “IoT, AI, ML Based Paddy-Disease Prevention System Using (DNN) Deep-Neural networks And Image- Processing”, Patent Journal, 04/03/2022.
5. Dr.Faritha Banu, J., Mr. Kathiresan J., Dr. Rudra Kalyan Nayak., Dr. Ramamani Tripathy., Dr. Jayapandian.N., Mr. Ganesan Dhandapani., Dr. T.Samraj Lawrence., Dr. Smitha Chowdary Ch., Dr. M. Mary Sujatha., Mr. R. Deenadhayalan, (2019) “Network Selection System And Method For Wimax Integrated Network And WLAN Integrated Network”, Patent Journal, 16/08/2019.

Book Publication

1. J. Faritha Banu, A. Umameswari, S. Deepa, Shiny Duela J, (2023) “Object Oriented Design and Programming”, Selfpage Developers Pvt Ltd, IIP Iterative International Publishers, ISBN: 978-1-68576-408-1.
2. T. Archana, J.Faritha Banu, S. Prasad and P.R. Shrivastava, (2023) “A Flexible and Investigation Approach for Encrypted Features Space Using Neural Network”, IoT, Cloud and Data Science, Advances in Science and Technology, Trans Tech Publications Ltd, Switzerland , ISBN(softcover): 978-3-0364-0151-5 ISBN(eBook): 978-3-0364-1151-4, ISSN: 1662-0356, Vol. 124, pp 754-761. 27-02-2023.
3. Published a book Titled “Supply Chain management” authored by Dr Faritha Banu J, N Prabhakaran and C Jayasree on OCT 2020, ISBN : 978-93-89970-83-8.
4. Published a book Titled “Operating System” authored by Dr Faritha Banu J and Dr Marie Claude N, APR 2020, ISBN : 978-93-5406-795-2

5. Contributed a Chapter in Customized Version of “Computer Fundamentals and Programming in C” by Anita Goel, Pearson Education, India for RMK Group of Institutions.

Professional Bodies:

1. Indian Society for Technical Education (ISTE) - Life Member - LM105462
2. International Association of Engineers (IAENG) (Member No: 290508), Hongkong, HK.
3. International Association of Computer Science and Information Technology (IACSIT) - 80348687
4. The Institute of Doctors Engineers and Scientists (IDES) - Invited Member

Google Scholar:

<https://scholar.google.com/citations?user=sVD4AUAAAAJ&hl=en>

Scopus:

<https://www.scopus.com/authid/detail.uri?authorId=54959955500>

LinkedIn:

www.linkedin.com/in/dr-faritha-banu-j-996346129