

SHAMILA A. EBENEZER, Ph.D.,

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Professional Profile

A dedicated Associate Professor in the Department of Computer Science and Engineering with 20 years of experience in teaching, mentoring, and research. Independent researcher, presenting and publishing research articles at conferences and peer-reviewed journals. Mentor and academic counselor, igniting a passion for learning and research in young minds.

Professional Qualification and achievements

Educational Credentials

- Ph.D. in Computer Science and Engineering, June 2018.
- Master of Engineering in Computer Science and Engineering, May 2004.
- Bachelor of Engineering in Electronics and Instrumentation, May 2002.
- Artificial Intelligence Engineer Master's program from Simplilearn.

Industry Certifications

- Microsoft Certified Azure Data Engineer
- IBM Certified Artificial Intelligence Practitioner- Instructor
- IBM Certified Data Science practitioner -Instructor
- ORACLE Certified Database Administrator
- EMC2 Certified Academic Associate- Data Science and Big DataAnalytics
- Coursera certification on Google Cloud for data analytics
- **English Proficiency:** IELTS Band Score 8

Experience Summary

- Associate Professor, Department of Computer Science and Engineering, Karunya Institute of Technology and Sciences, February 2004 – Till date.
- Worked in a data analytics project at Synechron, Pune as an intern during the period May –June 2019
- In charge of IBM Software Center of Excellence for Big data analytics
- In charge of Oracle India Pvt Ltd MoU with Karunya University
- Member of the Curriculum Development cell and Board of Studies in the Department of CSE and other colleges.
- Teach subjects such as Artificial Intelligence, Database Management systems, Python Programming, Operating systems, Digital Design for Undergraduate and Post graduate students
- Guided more than 20 projects in the area of data analytics, machine learning, Image processing, IoT & Cloud, and Grid Computing.
- Career guidance cell coordinator of the department, involved in Placement training and Campus Connect training.

Funded projects and Current Research Activities

- AI-based diagnosis of depression in students and treatment using CBT chatbot, an **Indian Council for Medical Research (ICMR) funded project. (Rs.18Lakh-Ongoing)**
- Bacterial and fungal Keratitis classification in tie-up with Sankara Eye Hospital, Coimbatore, Tamil Nadu, India.
- Traffic data analysis for accident analysis based on Coimbatore Road accident data.
- Solid Waste segregation project for rural areas near Karunya Nagar.
- Water discharge data analysis based on Kurnool and Rampur data.
- Data analytics for optimal water usage in agricultural lands of southern parts of India
- Handwritten digit recognition in the exam paper for estimation of course outcome attainment.
- Parkinson's Disease Prediction

Recent Journal Publications

- Gunasekaran, Hemalatha, S. Deepa Kanmani, Shamila Ebenezer, Wilfred Blessing, and K. Ramalakshmi. "Detection of Lung and Colon Cancer using Average and Weighted Average Ensemble Models." EAI Endorsed Transactions on Pervasive Health and Technology 10 (2024).
- Sheeba, Adlin, R. Rajalakshmi, B. Uma Maheswari, and A. Shamila Ebenezer. "Secure smart city application using webservice model and mayfly optimization- based lightweight CNN." Transactions on Emerging Telecommunications Technologies, 2023(**IF 3.31**)(**SCIE indexed**)
- S John Livingston, S. Deepa Kanmani, A. Shamila Ebenezer, Dahlia Sam, A. Joshi, An ensemble method for air quality monitoring and control using machine learning, Measurement: Sensors, Volume 30, 2023, Elsevier (**Scopus Indexed**)
- Sam, Dahlia, K. Nithya, S. Deepa Kanmani, Adlin Sheeba, A. Shamila Ebenezer, B. Uma Maheswari, and Jennifer Daffodils Amesh. "Survey of risks and threats in online learning applications." Secure Data Management for Online Learning Applications (2023): 2. (**Scopus Indexed**)
- Yogapriya, J., Chandran, V., Sumithra, M.G., Elakkiya, B., Shamila Ebenezer, A. and Suresh Gnana Dhas, C., Automated Detection of Infection in Diabetic Foot Ulcer Images Using Convolutional Neural Network. Journal of Healthcare Engineering, 2022. (**IF 1.44**) (**SCI indexed**)
- Saji, Alen Charuvila, K. Ramalakshmi, Hemalatha Gunasekaran, and Shamila Ebenezer. "Hand Sign Recognition using YOLOV5." Grenze International Journal of Engineering & Technology (GIJET) 8, no. 1 (2022). (**Scopus Indexed**)
- A.Shamila Ebenezer, Kanmani SD, Sivakumar M, Priya SJ. Effect of image transformation on EfficientNet model for COVID- 19 CT image classification. Materials Today: Proceedings. Elsevier, 13 Dec 2021. (**IF 1.24**) (**Scopus Indexed**)

- A.Shamila Ebenezer, Rajsingh EB, Kaliaperumal B. Support vector machine-based proactive fault-tolerant scheduling for grid computing environment. *International Journal of Advanced Intelligence Paradigms*. 2020;16(3-4):381-403. **(Scopus Indexed)**
- Jebapriya, S., Rani, A.J., Shamila Ebenezer, A." Comprehensive study of Parkinson's disease prediction", *Journal of Green Engineering*, 2020, 10(4), pp. 1762-1775. **(Scopus Indexed)**
- Swaminathan DK, Kirubakaran E, Rajsingh EB, A.Shamila Ebenezer. MIFCM: MICE imputed fuzzy C means clustering approach for effective skyline query processing on partially complete data. *J Ambient Intell Humanized Comput* 2019. **(Sci Indexed IF: 7.104)**
- A.Shamila Ebenezer, Jebapriya, S., Raja Bose, B.J., Predictive analysis of cryptocurrencies for developing an interactive cryptocurrency chatbot using IBM Watson assistant *International Journal of Innovative Technology and Exploring Engineering*, 8 (10), 2019, pp. 436-447. **(Scopus Indexed)**
- Priya, S.J., Sundar, G.N., Narmadha, D. and A.Shamila Ebenezer, Identification of Weeds using Hsv Color Spaces and Labelling with Machine Learning Algorithms, *International Journal of Recent Technology and Engineering*, Volume-8, Issue-1, May 2019. **(Scopus Indexed)**
- A.Shamila Ebenezer., Elijah Blessing Rajsingh, and Baskaran Kaliaperumal, A novel proactive Health Aware Fault Tolerant (HAFT) scheduler for computational grid based on resource failure data analytics. *International Journal of Computers and Applications*, pp. 1-11. 2018. **(Scopus Indexed)**
- A.Shamila Ebenezer, K.Baskaran, "Stability Assessment Metamorphic Approach (SAMA) for Effective Scheduling based on Fault Tolerance in Computational Grid", *International Journal of Engineering, TRANSACTIONS B: Applications* Vol. 27, No. 5, (May 2014) 699-708. **(Scopus Indexed)**
- A.Shamila Ebenezer, K.Baskaran (Sept 2012) "Fault Tolerant most Fitting Resource Scheduling Algorithm (FMFRS) for Computational Grid", *European Journal of Scientific Research* ISSN 1450- 216X Vol. 86 No 4th September 2012, pp. 468- 473.
- Deepa Kanmani, S., Shamila Ebenezer.A, Leela, S., Mahima, S., "Data analytics for optimal water usage in agricultural lands of Southern parts of India" *International Journal of Civil Engineering and Technology*, Volume 9, Issue 10, October 2018, PP: 668-680. **(Scopus Indexed)**
- D.A sir, A.Shamila Ebenezer , "Adaptive load balancing techniques in global scale grid environment", *International Journal of Computer Engineering and Technology*, ISSN 0976-6367, Volume 1, Number 2, Sept-Oct 2010, pp370-381.
- S.Uma Maheswari, A.Shamila Ebenezer, "Fault-Tolerant Scheduling Techniques for Computational Grid", *CiiT International Journal of Networking and Communication Engineering*, ISSN 0974 – 9713, Feb 2011.
- D.A sir, A.Shamila Ebenezer," A Novel Trust Based Job Replication for A Global Scale Grid Environment", *CiiT International Journal of Networking and Communication Engineering*, ISSN 0974 – 9713, Feb 2011.
- Nini Elsa, A.Shamila Ebenezer, "Information Aggregation Technique in Different Networks" *International Journal of Computer Applications*, Vol. 62, No. 8, pp. 37-41, Jan 2013.
- Nini Elsa, A.Shamila Ebenezer, "An Effectual Failure Factor Augmented Aggregation Techniques for Computational Grid", *International Journal of Computer Trends and Technology*, Vol. 4, Issue 4, pp. 269-274, 2013.
- Regnard Viven, A.Shamila Ebenezer, "Distributed Metadata Filter Array Based Resource Discovery in Distributed Computational Grids", *International Journal of Computer Science and Management Research* Vol. 2 Issue 4, pp. 2149-2152, April 2013.

Publications in Conference Proceedings

- Viswam, V.K., Ebenezer, S." Wireless Endoscopic Images for Abnormal Alimentary Tract: A Survey" 9th International Conference on Smart Computing and Communications: Intelligent Technologies and Applications, ICSCC 2023, 2023, pp. 700–705**(Scopus Indexed)**
- Chacko, A.A., Roshni Thanka, M., Edwin, B., Shamila Ebenezer, A. " Intrusion Detection using Machine Learning Techniques: An exhaustive review", 9th International Conference on Advanced Computing and Communication Systems, ICACCS 2023, 2023, pp. 1586–1589 **(Scopus Indexed)**
- Priya, S.J., Shamila Ebenezer, and Mathu, T., 2020, August. "Prediction of Parkinson's disease using Local Ternary Pattern for Gait Signals" In 2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT) (pp. 545-549). IEEE. **(Scopus Indexed)**
- Deepa Kanmani, S., Kirubakaran, E., Blessing Vinoth, A.Shamila Ebenezer, "An Effective Imputation Technique for Improving the Performance of Skyline Queries for Incomplete Database", 2019 *International Conference on Data Science and Communication, IconDSC 2019*. **(Scopus Indexed)**
- A.Shamila Ebenezer, S.JebaPriya, D.Narmadha, G.Naveen Sundar, A Novel Scoring System for Coronary Artery Disease Risk Assessment, in proceedings of IEEE sponsored International conference on Intelligent computing and control, June 2017, ISBN 978-1-5386-0373-4 pp: 322- 327. **(Scopus Indexed)**
- A.Shamila Ebenezer, Dr.K.Baskaran," Job replication techniques to improve fault tolerance in computational Grid", in proceedings of International Conferences on Advances in Parallel and Distributed computing, Nov2010.

Patents

- Deep learning based animal tracking system using voice vocalization

Guest lectures and Hands-on Training Offered

- Guest lecture on "Overview of IBM Netezza Datawarehouse for Analytics", in association with Computer Society of India (CSI), Mysuru Chapter.
- Guest lecture on "Clustering Techniques", Sri Venkateshwara College of Engineering, Chennai
- Delivered hands-on training on "IBM Big Insights for Data Analytics & Pure Data Analytics using IBM Netezza", Karunya University
- Delivered hands-on training on "Data analysis using Excel", DBT-Star Scheme Rathnavel Subramaniam College of Arts and Science, Sulur, Coimbatore
- Served as a trainer, teaching and training students to obtain Oracle Database Administrator.