

**Name : Dr.P.Esther Jebarani**  
**Designation : Assistant Professor**  
**Department : Computer Science with Cognitive Systems**  
**Qualification : MCA., MBA., Ph.D.,**  
**Experience : Teaching – 9 | Research – 5**  
**Specialization: Digital Image Processing, Machine Learning, Artificial Intelligence**  
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### Academic Qualifications

Degree	Branch	Institution / University Name	Year
Ph.D.	Computer Science	Sri Jayendra Saraswathy Maha Vidyalaya College of Arts and Science, Coimbatore Affiliated to Bharathiyar University, Coimbatore	2024
MBA	Finance	Bharathiar University, Coimbatore	2012
MCA	Computer Applications	Karunya Institute of Technology and Sciences, Coimbatore	2011
BCA	Computer Applications	Nirmala College for Women's, Red Fields, Coimbatore, Affiliated to Bharathiyar University, Coimbatore	2008

### Additional Qualifications

Dip. / Cert.	Area of Specialization	Institution / Agency Name	Year
Certificate	Project Management Fundamentals	IBM SkillsBuild	2023
Certificate	Web Designing Using PHP	Karunya University	2010
Diploma	.NET	Apollo Computer Education Limited	2011

## Research Publications

### I. International Journals

1. Esther Jebarani P., Umadevi, N., “Grey Wolf Optimization Based Breast Cancer Detection using 1D Convolution LSTM Classifier”, *Przegląd Elektrotechniczny (Web of Science)*, 2023, PP 1-9 (Indexed in SCOPUS)
2. Esther Jebarani P., Umadevi N., “Gray Level Co-occurrence Matrix with Grey Wolf Optimization for Breast Cancer Detection”, *NeuroQuantology*, 2022, 20(1), PP 11010- 11025 (Indexed in SCOPUS)
3. Esther Jebarani, P., Umadevi, N., “A Novel Hybrid K-Means and GMM Machine Learning Model for Breast Cancer Detection”, *IEEE Access*, 2021, 9, pp 146153-146162. [Impact factor:3.367] (Indexed in SCOPUS)
4. Esther Jebarani, P., Umadevi, N., “Survey on various Feature Extraction Methods for Breast Cancer Detection using Soft Computing Approach”, *International Journal of Annals of the Romanian Society for Cell Biology*, 2021, 25(1), pp. 5370-5393. (Indexed in SCOPUS)
5. Amir Anton Jone A, Annal Joy J, K. Martin Sagayam, Esther Jebarani P, J John Paul (2020), “Dual feed microstrip patch antenna for X-band application”, *International Journal of Advanced Science and Technology*, vol. 29, no. 8s, pp. 3506-3516. (Indexed in SCOPUS)
6. Amir Anton Jone A, T. Anita Jones Mary Puspha, Navin M George, Esther Jebarani P, K. Martin Sagayam, Suresh Subramanian (2020), “Report on various diagnostic methods for breast cancer detection in women”, *International Journal of Advanced Science and Technology*, vol. 29, no. 8s, pp. 2843-2848. (Indexed in SCOPUS)
7. Amir Anton Jone, A., Anita Jones Mary Pushpa, T., George, N.M., Subramanian, S., Esther Jebarani, P., "Method for early detection of breast cancer: A technical review" *Indian Journal of Public Health Research and Development*, 2019, 10(10), pp. 441–445. (Indexed in SCOPUS)
8. Amir Anton Jone, A., Esther Jebarani, P., George, N.M., Subramanian, S., Sagayam, K.M., "Design and performance of UWB wide slot antenna to detect the breast cancer in women", *International Journal of Engineering and Advanced Technology*, 2019, 8(6), pp. 3956–3963. (Indexed in SCOPUS).
9. Amir Anton Jone, A., Prince, S., Samson Immanuel, J., Martin Sagayam, K., Jebarani, E., "Portable UWB based monopole antenna for wearable applications", *International Journal of Recent Technology and Engineering*, 2019, 8(2), pp. 71–75. (Indexed in SCOPUS)

10. Amir Anton Jone, A., Samson Immanuel, J., Manoj, G., Martin Sagayam, K., Esther Jebarani, P., "A compact UWB slot antenna for WIMAX and WLAN applications", International Journal of Innovative Technology and Exploring Engineering, 2019, 8(8), pp. 557–560. (Indexed in SCOPUS)

11. Samson Immanuel, J., Manoj, G., Amir Anton Jone, A., Esther Jebarani, P., "Frequent itemset matching for real time applications using reconfigurable hardware architecture", International Journal of Innovative Technology and Exploring Engineering, 2019, 8(5s), pp. 440–444. (Indexed in SCOPUS)

## II. International Conference

1. Esther Jebarani, P., Amir Anton Jone, A., Tony Jose, John Paul, J., Shelja Jose., "Performance Analysis of Different Hardware Platforms in Wireless Sensor Networks", 4th International Conference on Signal Processing and Communication (ICSPC) - IEEE Xplore, 23rd and 24th March 2023 at Karunya University, Coimbatore. (Indexed in SCOPUS)

## **Presentations in Conference/ Seminar**

### I. National Conference

1. Presented paper on "Comparison of energy consumption in UFnDA and UFDA using Multi-criteria Architecture in WSN" in National Conference on 16th & 17th April 2010, Organized by Department of ECE and IT held at Dr.Mahalingam College of Engineering and Technology, Coimbatore.

### II. National Seminar

1. Presented paper on "Integrating Technology in Curriculum – Challenges & Strategies" in National Seminar on Indian Council of Social Science Research (ICSSR) on 3rd March 2023 organized by Nallamuthu Gounder Mahalingam College, Pollachi.

2. Presented paper on "Health Insurance for the poor in India" in National Seminar on Emerging Paradigms in Financial Sector on 16th and 17th October 2008, Organized by Karunya School of Management held at Karunya University, Coimbatore.

## **Participation in Conference/Seminar**

1. One Day National Seminar on Perspective of ICT Tools in Education, Indian Council of Social Science Research (ICSSR) & Department of Commerce, Nallamuthu Gounder Mahalingam College, Pollachi, 04-Aug-24.

2. National level Conference on E-Commerce Analytics, PSG College of Arts and Science, Coimbatore, 23-Jan-20.
3. National Conference on Computer Dexterity and Career Guidance, Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore, 28-Sep-05 to 29-Sep-05.

### **Participation in Orientation Programme / Short Term Courses**

1. Event of CyberSprint on Synergy, GR Govindarajulu School of Applied Computer Technology, Coimbatore, 19-Feb-10.
2. State Level Symposium on Digitek-2K7, Nirmala College for Women, Coimbatore, 13-Mar-07.

### **Participation in Faculty Development Programme**

1. AI Powered Learning: Shaping the Future of Education, Vivekanandha Arts and Science College for Women, Salem, 20-Jan-25 to 25- Jan -25.
2. Microsoft Azure AI Engineer, Karunya Institute of Technology and Sciences in collaboration with Ministry of Electronics & Information Technology, Government of India, 2-Dec-24 to 6-Dec -24.
3. Smart Intelligence: Cutting-Edge Trends and Practical Applications of AI, Karunya Institute of Technology and Sciences, Coimbatore, 15-Oct-24 to 19-Oct -24.
4. Outcome Based Education for Program Accreditation, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh in collaboration with Ministry of Education, Government of India, 7-Oct-24 to 11-Oct -24.
5. AI Tools for Teaching, Star International Foundation for Research and Education, 22-Jun -24.
6. Edge Cutting Technologies in IT Field, Rajapalayam Raju's College in collaboration with IGL HandsOn Private Limited, USA, 19-Sep-23 to 23-Sep-23.
7. Harnessing Outcome Based Teaching – Learning Deliverables for the Enhancement of Accountability in Contemporary Education – A Holistic Perspective, Coimbatore Institute of Engineering and Technology, Coimbatore, 12-Jun-19 to 25-Jun-19.
8. Python, Kovai Kalaimagal College of Arts and Science, Coimbatore, 11-Jun-17.

### Participation in Workshop

1. International Workshop on Color Filter Array Demosaicking Methods in Spatial and Frequency, SNS College of Technology in association with KYUNGPOOK National University, South Korea, 15-Feb-18.
2. National Workshop on Antenna Design using HFSS, Karunya Institute of Technology and Sciences, Coimbatore, 29-Oct-18.
3. Two Day Hands-on Workshop on Fundamentals of MATLAB for Beginners, Sri Ramakrishna Engineering College, Coimbatore, 5-Mar-18 & 6-Mar-18.
4. Workshop on Technical Writing & Research Methodology, TIFAC-CORE in Cyber Security, Amrita Vishwa Vidyapeetham, Coimbatore, 26-Mar-18 & 27-Mar-18.

### Conference / Seminar / Workshop Organized

1. Event Coordinator, National Level Techno-Management Fest, MindKraft-2025, Karunya Institute of Technology and Sciences, Coimbatore, 21-Mar-25 & 22-Mar-25.
2. Organizer, Workshop on ML Engineering Essentials – GitHub, Kaggle & MLFlow, Karunya Institute of Technology and Sciences, Coimbatore, 13-Feb-25.
3. Organizer, Workshop on Arduino Robotics, Harbour Technologies in association with elan & nVision, IIT Hyderabad, Kovai Kalaimagal College of Arts and Science, Coimbatore, 7-Feb-23 & 8-Feb-23.

### Invited Speaker / Session Chair/ Reviewer

1. Resource Person, Power of Youth – Youth Red Cross, PSGR Krishnammal College for Women, Coimbatore 18-Dec-23.

### Editorial / Reviewer Board Member

1. Editorial Board Member, JSER – Multidisciplinary Research in Innovation & Technology, SJ Publications, 2025.

### Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
IAENG Membership	Life-time	-

**Awards / Honors**

<b>Awards / Honors</b>	<b>Agency / Institute</b>	<b>Year</b>
Special Achiever Award	Kovai Kalaimagal College of Arts and Science, Coimbatore	2023
Star Faculty Award	Kovai Kalaimagal College of Arts and Science, Coimbatore	2022