

**Name** : Ms. Sathiya Priya A  
**Designation** : Assistant Professor  
**Department** : Information Technology  
**Qualification** : M.C.A., (Ph.D.)  
**Experience** : Teaching - 5 Years, Research - 1 Year  
**Area of Specialization(s)** : Image Processing, NLP  
**Email (Official ID)** : sathiyapriya.a@drngpasc.ac.in



### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Computer Science	CMS College of Science and Commerce	Pursuing
MCA	Computer Applications	Avinashilingam Institute for Home Science and Higher Education for Women	2016
B.Sc.	Information Technology	Hindusthan College of Arts and Science	2013

### Additional Qualifications

Dip./ Cert.	Area of Specialization	Institution / University / Agency	Year
Certificate	Advanced level	Innovation Ambassador Training	2023
Certificate	Foundation Level	Innovation Ambassador Training	2023
Certificate	Cloud Infrastructure & Services	EMC <sup>2</sup> and Microsoft	2016
Certificate	Excel - Beginner	Sri Krishna College of Technology	2020
Certificate	Introduction to Cyber Law	Sri Krishna Adithya College of Arts and Science	2020

### Publications: International / National Journals

- A. Sathiya Priya, “Machine learning based Cyber Attack detection on Internet Traffic” IJSRA, March-April 2024, Volume 11, Issue 2, eISSN: 2582- 8185, Pg:619-624, DOI: 10.30574/ijjsra.2024.11.2.0459.
- A. Sathiya Priya, “CNN and RNN using Deepfake detection” IJSRA, March-April 2024, Volume 11, Issue 2, eISSN: 2582- 8185, Pg: 613-618, DOI: 10.30574/ijjsra.2024.11.2.0460.
- A. Sathiya Priya, “Security Challenges and Solutions in Cloud Computing Environments” International Advanced Research Journal in Science, Engineering and Technology, Volume 11, Issue 3,ISSN (Online) 2393-8021, March 2024, DOI: 10.17148/IARJSET.2024.11311.
- A. Sathiya Priya, “Blood Donation Coordination platform” International Advanced Research Journal in Science, Engineering and Technology, Vol. 11, Issue 3, March 2024,ISSN (O) 2393-8021,DOI: 10.17148/IARJSET.2024.11358.
- A. Sathiya Priya, “Unveiling the Realm of Artificial Intelligence: Exploring Boundless Innovation and Endless Potential” International Advanced Research Journal in Science, Engineering and Technology, Vol. 11, Issue 3, March 2024,ISSN (O) 2393-8021, DOI: 10.17148/IARJSET.2024.11359.
- A. Sathiya Priya, “SUPPLY CHAIN PARTNER ONBOARDING USING CONVERSATIONAL AI AND NLP IN B2B” International Advanced Research Journal in Science, Engineering and Technology, Vol. 11, Issue 3, March 2024,ISSN (O) 2393-8021, DOI: 10.17148/IARJSET.2024.11425
- A. Sathiya Priya, B. Sumathi “Feature Extraction Based on Cellular Particle Swarm Optimization Algorithm for American Sign Language Images” IJIRIS , Sairam College of Engineering ICRCCT 23, Issue 03, P-ISSN 2349 - 7009, Pg: 204-211,Volume 09, June 2023, DOI: 10.26562/ijiris.2023.v0903.27.
- A. Sathiya Priya, B. Sumathi “Recognition of Sign Language using Image Preprocessing Techniques” JXAT JOURNAL, Issue VII, ISSN 1006-7930, Volume XIV, July 2022.

- A.Sathiya Priya, “Cellular Particle Swarm Optimization Based on Optimized Canny Technique for Edge Detection in Sign Language Digital Images” World Journal of Engineering Research and Technology WJERT, ISSN 2454-695X WJERT, 2022, Vol. 8, Issue 9.
- A. Sathiya Priya, R. Reshma, “Integrated Services Digital Network Router and Routing Progression” International Advanced Research Journal in Science, Engineering and Technology (IARJSET), ISSN (Online) 2393-8021, ISSN (Print) 2394-1588, Volume 7, Issue 1, January 2020.
- A. Sathiya Priya, K.P. Aakash, “Child Orphanage Automation System”, International Advanced Research Journal in Science, Engineering and Technology (IARJSET), ISSN (Online) 2393-8021, ISSN (Print) 2394-1588, Vol. 7, Issue 3, March 2020.
- A. Sathiya Priya, P. Jaya Surya “Voice Based Assistant in Atm Model”, International Advanced Research Journal in Science, Engineering and Technology (IARJSET), ISSN (Online) 2393-8021, ISSN (Print) 2394-1588, Vol. 7, Issue 3, March 2020.
- A. Sathiya Priya, “Generations in Wireless Network”, International Journal of Computer Sciences and Engineering (ISROSET), Vol.7, Issue.5, pp.124-128, 2019, ISSN:23472693, May 2019.
- A. Sathiya Priya, R. Reshma, "Optimal Broadcast for Multihop Wireless Network through Collision Resolution", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.6, Issue 2, Page No pp.837-841, June 2019, Available at: <http://www.ijrar.org/IJRAR19K4520.pdf>

### **Book Chapters**

- A. Sathiya Priya, “ ARTIFICIAL GENERAL INTELLIGENCE (AGI) – BALANCING PROMISE AND PERIL” in Advances in Future Trends and Technology ISBN – 978-81-963688-3-8, Pages: 113, Ed: 1, BOOKFLY PUBLICATIONS
- A. Sathiya Priya, B. Sumathi, “Real Time Speech Recognition System Using FFT” in Recent Trends in Technology, Management, Business & Social Science by Sankara College of Science and Commerce, Aug 2023, ISBN 978-93-5627-535-5, Pg: 1-5,

DOI:10.5281/zenodo.10590165

- A. Sathiya Priya, B. Sumathi “Virtual Automatic Wheelchair for Special People” in Constructive Discontent in Execution: Creative Approaches to Technology and Management by Apple Academic Press, December 2022, ISBN: 978-1-00331-483-7, Pg:1-12.

### **Book Publications**

- A. Sathiya Priya “Natural Language Processing” by Prime International Publication, ISBN: 978-93-6010-931-8, December 2023.

### **Presentations in Conference/ Seminar**

- A. Sathiya Priya, “Artificial General Intelligence: Pros and Perils” International Conference on Sustainable Computing Trends-ICSCT- 2024, 14 March 2024.
- A. Sathiya Priya, N.Vaishnavi, “Synergies of Artificial Intelligence and Robotics: A Comprehensive Overview of Key Algorithms and Applications on ICCICT- 2K24, 4-Jan 24.
- A. Sathiya Priya, B. Sumathi “Cellular Particle Swarm Optimization Based Optimized Canny Techniques for Edge Detection in Sign Language Digital Images” on 2<sup>nd</sup> ICES-2023 held at Sri Balaji College of Engineering and Technology, Jaipur, 22 June 2023.
- A. Sathiya Priya, B. Sumathi “Cellular Particle Swarm Optimization Based Optimized Canny Technique for Edge Detection in Sign Language Digital Images” in 7<sup>th</sup> Global Leadership Research Conference 2022 held at Amity Business School, Noida, India ON 16-18th Feb 2022.
- A. Sathiya Priya, B. Sumathi “Virtual Automatic Wheelchair for Special People” in 6<sup>th</sup> Global Leadership Research Conference 2021 held at Amity Business School, Noida, India on 25 - 27th February 2021.
- A. Sathiya Priya, N. Vaishnavi “Artificial learning and its application – Review” Proceedings at International Conference on AI for Sustainable Development – Challenges and Opportunities in VET Institution of Arts and Science college on DEC 2022, ISBN: 978-93-95422-56-7, Pg:191-200

- A. Sathiya Priya, “Integrated Services Digital Network Router and Routing Progression” in the 10<sup>th</sup> National Conference on “Machine Learning and Smart Technology”, Sri Krishna Arts and Science College on 12<sup>th</sup> Feb 2020.
- A. Sathiya Priya, “Integrated Services Digital Network Router and Routing Progression” in the 7<sup>th</sup> National Conference on “Recent Trends and Advance in The Field of Information Technology”, Karpagam Academy Higher Education on 27<sup>th</sup> Sep 2019.
- Dr. P. Subashini, Dr. M. Krishnaveni, Ms. T.T. Dhivyaprabha, Ms. A. Sathiya Priya, 2016, “Optimized Classification Based on Particle Swarm Optimization Algorithm for Tamil Sign Language Digital Images" Proceedings at International Conference on Computation System and Information System for Sustainable Solutions (CCSISS 2016), in RV College of Engineering, Bengaluru, on 06 - 08 October 2016, ISBN: 978-1-5090-1022-6.

#### Participation in Seminars/Workshop/ Webinar

- Participated in the Student Workshop On **Android App Development** (2014) at Kongunadu Arts and Science College, Coimbatore.
- Participated in **one day Power Seminar on Big Data and Business Analytics** (2014) organized by ICT Academy of Tamil Nadu in collaboration with Avinashilingam University, Coimbatore.
- Participated in **SERB sponsored One Day Seminar on Oppertunities in Assistive Technology**(2016), organized by Avinashilingam University, Coimbatore
- Participated and Presented a poster on “LI-FI Technology for effective E-Services” in Two Day Seminar on Practices on **Digital Services for the Nation Building** (2016), organized by Avinashilingam University, Coimbatore
- Participated in Three Day Workshop on **Geographical Information System (GIS)** using openSource Software (2017) at Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore.
- Pre-Conference Workshop on **Video Computing Using SCILAB** at The Gandhigram Rural Institute – Deemed University, Gandhigram held on 26 Jan 2017.

- Pre-Conference Workshop on **Video Restoration Techniques and Applications** at The Gandhigram Rural Institute – Deemed University, Gandhigram held on 26 Jan 2017.
- Webinar on “**An effective research writing skills**” Bhagwan Mahavir University on 13-16 April 2020.
- International Seminar on **Cache Efficient Computing** at Hindustan College of Arts and Science, Coimbatore held on 16 Sep 2021.
- Webinar on **Recent Development and Future Advancements in Nanotechnology**, Nehru Institute of Technology, 5 May 2021.
- Two Day National Level Virtual Workshop on **Research and Related Tools (2022)** at CMS College of Science and Commerce, Coimbatore
- **Timeline Presentation** in CMS College of Science and Commerce, Coimbatore held on 23 March 2022.
- **Annual Research Consortium** in CMS College of Science and Commerce, Coimbatore held on 24 March 2022.
- Two Day Webinar on **INTERNET OF THINGS** at CMS College of Science and Commerce, Coimbatore held on 5th and 6th June 2020.

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

- **Next Generation Artificial Intelligence**, Vishwakarma Institute of Information Technology, Pune, 11-16 March 2024.
- **Python Programming with Django Framework for Building Web Applications**, CMR ENGINEERING COLLEGE, Hyderabad, 12-16 th Feb 2024.
- **Latest Trends and Techniques in Software Engineering: An Industry Perspective**, Christ University, Bangalore, 20-27 Jan 2024.
- **Latest Trend and Techniques in Software Engineering: An Industry Perspective**, CHRIST University, Bangalore Central Campus, 22-23, March' 2024.
- **Data Analytics using Python**, ICT Academy at PSG ITech, Coimbatore, 25 to 30-Sep-23.

- **Advance in Emerging Trends & Technologies**, St. Joseph's College, Chennai, 6- 10 Feb 2023
- **Digital Citizenship for New Age Teachers**, Sri Ramakrishna College of Arts and Science, Coimbatore o 4-8th Oct 2021.
- National Training Programme on **Sustainable Coastal Community Based Disaster Risk Reduction**, The TamilNadu Dr. Ambedkar Law University, Chennai & National Institute of Disaster Management, New Delhi on 21st June 2021 - 23rd June 2021.
- **Encountering Challenges in Research**, Hindusthan College of Arts and Science , Coimbatore on 7 May 2020.

### Patent

- AI & IOT based Smart Pharm Meditation for Disabled Bedridden Patients, 4-Feb-22.

### Editorial / Reviewer/ Board Member

- Reviewer, International Journal of System Assurance Engineering and Management(IJAS) - 2023-Till Date.
- Reviewer, International Conference on Computational Science and Sustainable Technologies (ICCSST-2023), 8-9 May 2023.
- Reviewer, International Conference on Sustainable Advanced Computing (ICSAC - 2024, 22-23 March 2024.

### Membership in Professional Bodies

<b>Name of the Professional Body</b>	<b>Nature of membership</b>
IJCRT RMS- Reviewer (Member ID: 115157)	Life-time
IAENG Member No: 250043	Life-time
Society of Digital Information and Wireless Communications (ID: 26810)	Life-time

Reviewer in IJCRT - Member ID is: 115157	Life-time
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### **Awards / Honors**

<b>Awards / Honors</b>	<b>Agency / Institute</b>	<b>Year of Award</b>
Outstanding Performance	Adithya College of Arts and Science	2023