

## RESUME

**Name : S. SOWMYAYANI**

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### Career Objective

I would like to be professional towards the organization and to work where my skills will be useful, active to accept all challenges and work hard towards achieving goals of the organization with new techniques.

### Experience Summary

- ❖ Worked as Lecturer in the Department of Computer Science and Information Technology in Nadar Saraswathi College of Arts & Science, Theni, Tamil Nadu during 2012-13 (Even Semester).
- ❖ Worked as Assistant Professor in the Department of Computer Science in Kristu Jayanti College (Autonomous), Bengaluru, Karnataka during 2018-19 (Odd Semester).
- ❖ Working as Assistant Professor in the Department of Computer Science (Self Finance) in St. Mary's College (Autonomous), Thoothukudi, Tamilnadu during 2019-2022.

### Academic Qualifications

Degree and Year of Passing	Institution	% of marks	Achievement
<b>Ph.D Computer Science (Full Time) April 2017</b>	Manonmaniam Sundaranar University, Tirunelveli	-	<b>Published 6 International Journals and 3 International Conferences</b>
<b>NET(December 2012)</b>	UGC	<b>57.71</b>	<b>Qualified</b>
<b>SET (October 2012)</b>	UGC(In the state of Tamilnadu)	<b>63.3</b>	<b>Qualified</b>
M.Phil. Computer Science (Full Time) January 2013	Manonmaniam Sundaranar University, Tirunelveli	73.2	
M.Sc.(Computer Science) April 2011	St. Xavier's College (Autonomous), Palayamkottai, Tirunelveli.	85.09	<b>Department 1<sup>st</sup> Rank</b>
B.Sc.(Computer Science) April 2009	St. Mary's College, Thoothukudi	88	<b>University 2<sup>nd</sup> Rank</b>
H.S.C(Computer Science) March 2006	St. Aloysius G.H.S.S, Thoothukudi	91.42	<b>School Second</b>

S.S.L.C (April 2004)	St. Aloysius G.H.S.S, Thoothukudi	96.4	<b>School Second</b>
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### Co-curricular Activities

- Attended Board of Studies Meeting at St.Mary's College (Autonomous), Thoothukudi on 27-02-2014
- Presented paper in Symposium at Manonmaniam Sundaranar University, Tirunelveli
- Delivered a Guest Lecture on the topic "CLOUD COMPUTING" in Computer Application Association at Govindammal Aditanar College for Women, Tiruchendur on 18-02-2015.
- International Advisory Board Member in Journal of Communications Technology, Electronics and Computer Science
- Acted as Review Committee Member in "National Conference on Research Quest", conducted by Manonmaniam Sundaranar University Constituent College, Kadayanallur on 07-03-2020.
- Delivered a Guest Lecture on "Recent Trends in Programming Era", in National Level Webinar organized by Govindammal Aditanar College for Women, Tiruchendur on 27-06-2020.
- Delivered a Guest Lecture on "Latex", in Two days National Level Workshop organized by Manonmaniam Sundaranar University Constituent College, Kadayanallur on 10-07-2020 and 11-07-2020.

### Patents Published

S. No	Patent	Organizer	Title
1.		Government of India	IOT Based New Device for Dairy Cow Body Condition Scoring System

### Books Published

S. No	Book Name	Publisher	Indexed	ISBN
1.	Towards Wavelet Based Video Codec	Book Publisher International	-	978-93-5547-305-9 (Print) 978-93-5547-313-4 (eBook)

### Chapters Published

S. No.	Book Name	Chapter Name	Publisher	Indexed	ISBN
1.	New Approaches in Engineering Research	Determination of Segmentation Based H.264/AVC Using Octagon and Square Search Pattern in Adaptive Group of Pictures Mode	Book Publisher International	-	Print ISBN: 978-93-91882-73-0, eBook ISBN: 978-93-91882-81-5

2.	Prediction and Analysis for Knowledge Representation and Machine Learning" in production.	Machine Learning	CRC Press (Taylor and Francis Group)	Scopus	9780367649104
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## Conferences

S. No.	Name of the Conference	Organizer	Title
1.	National Conference on "Recent Trends in Advanced Computing"	Manonmaniam Sundaranar University, Tirunelveli	Texture Based Video Compression
2.	International Conference on Evolving Trends in Engineering & Technology	Latha Mathavan Engineering College, Madurai	Comparative Analysis of Block Marching algorithm for video compression
3.	IEEE International Conference on Computing Technologies and Intelligent Data Engineering	National Engineering College, Kovilpatti	Shot Boundary Detection using DWT and Texture Filtering
4.	National Conference on Research Quest	MSU Constituent College, Kadayanallur	An Efficient 2D to 3D Image Conversion using Hexagon Block Splitting
5.	National Conference on Research Quest'22	MSU Constituent College, Kadayanallur	An efficient content based video retrieval system using salient object detection

## Journals (<https://scholar.google.co.in/scholar?hl=en&q=sowmyayani>)

S. No.	Journal Name	Publisher	Article Name	No. of citations
1	ICTACT Journal on Image and Video Processing	ICTACT	Adaptive GOP structure to H.264/AVC based on scene change	7
2	International Journal of Signal Processing, Image Processing and Pattern Recognition (IJSIP)	SERSC	Block based Motion Estimation using Octagon and Square Pattern	8
3.	International Journal of Computer Vision and Robotics (IJCVR)	Inderscience	Frame differencing-based segmentation for low bit rate video codec using H.264	1

4.	International Journal of Image and Graphics	World Scientific	Wavelet-Based Feature Vector for Shot Boundary Detection	2
5.	International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering	WASET	Enhancing the Performance of H.264/AVC in Adaptive Group of Pictures Mode Using Octagon and Square Search Pattern	-
6.	International Journal of Emerging Technology in Computer Science and Electronics		Comparative Analysis of Block Marching algorithm for video compression	-
7.	International Journal of Image and Graphics	World Scientific	An Efficient Temporal Redundancy Transformation for Wavelet Based Video Compression	2
8.	International Journal of Computer, Electrical, Automation, Control and Information Engineering	WASET	Shot Boundary Detection Using Octagon Square Search Pattern	1
9.	International Journal of Engineering and Future Technology	Ceser Publications	Empirical Evaluation of Intra Coding Technique Used In H. 264 or AVC	-
10.	ICTACT Journal on Image and Video Processing	ICTACT	Temporal Redundancy Reduction In Wavelet Based Video Compression For High Definition Videos	
11.	International Journal of Computer and Information Engineering	WASET	An Efficient Fall Detection Method for Elderly Care System	
12.	Vietnam Journal of Computer Science	World Scientific	Fall Detection in Elderly Care System Based on Group of Pictures	
13.	International Journal of Image and Graphics	World Scientific	Multi-Type Classification Comparison of Mammogram Abnormalities	
14.	Multimedia Tools and Applications	Springer	Salient object based visual sentiment analysis by combining deep features and handcrafted features	
15.	International Journal of Computer and Systems Engineering	WASET	Block-Based 2D to 3D Image Conversion Method	

16.	Vietnam Journal of Computer Science	World Scientific		
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## Workshops attended

S. No.	Workshop Name	Organizer
1.	UGC- SAP Sponsored One day Seminar on “DATA MINING”	Manonmaniam Sundaranar University, Tirunelveli
2	ISTE sponsored National Level Three Days Faculty Development Program on “Hands on Experience on MATLAB & SIMULINK TOOLBOX”	Sambhram Institute of Technology, Bangalore
3.	TEQIP-II sponsored one day workshop on “PROFICIENT DOCUMENT WRITING using Latex”	Manonmaniam Sundaranar University, Tirunelveli
5.	TEQIP PHASE-II ICTACT sponsored Two days seminar on “Big Data and Cloud Computing	Manonmaniam Sundaranar University, Tirunelveli
6.	Image and video processing: From Mars to Hollywood with a stop at the hospital	Coursera
7.	Three days Online Workshop on Reference Management Tools and Online Citation Database	Indian Academic Research Association
8.	One week Online FDP on R Programming Training	P.R.Pote Group of Educational Trust's College of Engineering & Management in association with IIT Bombay
9.	Online FDP on Machine Learning using Python	VELS Institute of Science, Technology and Advanced Studies, Chennai
10.	Webinar Programme on “How to be secured in Digital Era”	SRM Institute of Science and Technology, Chennai
11.	Online FDP on “Recent Trends in Color Image Processing”	Patrician College of Arts and Science, Chennai
12.	5 Days Online FDP on Python Programming	Sona College of Technology in association with IIT Bombay
13.	Webinar on “Teachers as Leaders”	SRM Institute of Science and Technology, Chennai
14	Webinar on “Introduction to Deep Learning”	Avinashilingam Institute for Home Science and Higher Education for Women
15	National Level FDP on “Next-Gen Classroom Teaching and Digital Content Creation”	Wavoo Wajeetha Women’s College of Arts and Science , Kayalpatnam

16.	Webinar on “Role of Big Data Analytics in Healthcare”	VELS Institute of Science, Technology and Advanced Studies, Chennai
17.	Webinar on “Cyber Security”	Manonmaniam Sundaranar University Constituent College, Kadayanallur

## Personal Details

DOB/Gender/Age : 21.06.1989 / Female / 30  
 Nationality/ Religion : Indian /Hindu  
 Marital Status : Married  
 Address : 2/614, Packianathan Vilai,  
 Arockiapuram Post  
 Thoothukudi - 628002.  
 Mobile No. : 91-7795782105  
 Husband’s Name : P. Subramanian  
 Father’s Name : K. Sudharshan  
 Mother’s Name : G. Shantha Kumari  
 Technical Qualification : Passed Typewriting senior (English) with Distinction  
 Extra-curricular Activities : N.C.C., N.S.S.  
 Languages Known : Tamil, English, Telugu, Hindi (Read Only)

## Area of Interest

- Compiler Design
- Data Structures
- C, J2EE
- RDBMS

## Research Area

- Video Processing (Segmentation, Compression, Human Action Recognition)
- Face Recognition
- Object Detection
- Medical Image Processing
- Machine Learning

## Declaration

The information furnished by me is true to the best of my knowledge and belief.