

# RESUME



**Name: Dr. J. Patricia Annie Jebamalar**  
**Designation: Assistant Professor and Vice Principal**  
**Department: Computer Science**

**Address: 8/114A, Kalaikovil Nagar, Krishnapuram, Tirunelveli. 627 011**

## PERSONAL DETAILS

Date of Birth : 06/08/1976

Qualification : M.Sc., M. Phil., NET, SET, Ph.D.

Designation : Assistant Professor

Department : Computer Science

Community : BC

Religion : Christian

Nationality : Indian

Mobile : 9442020972

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## ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
B. Sc.	Computer Science	Sarah Tucker College	Manonmaniam Sundaranar University	April 1997
M. Sc.	Computer Science	Manonmaniam Sundaranar University	Manonmaniam Sundaranar University	April 1999

M. Phil.	Computer Science	Alagappa University	Alagappa University	April 2008
Ph. D.	Computer Applications	Karunya Institute of Technology and Sciences	Karunya University	May 2020
<b>ACADEMIC IDENTITY</b>				
*VIDWAN ID	287323			
*ORCID ID	0000-0002-3757-5380			
*SCOPUS ID				
*RESEARCHER ID/ PUBLONS ID	GOH-1449-2022			
GOOGLE SCHOLAR LINK	<a href="https://scholar.google.com/citations?user=vULp0PkAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=vULp0PkAAAAJ&amp;hl=en</a>			

<b>TEACHING EXPERIENCE</b>	
<b>Date of Appointment</b>	16/06/2008
<b>Date of Retirement</b>	06/08/2036
<b>Teaching Experience</b>	UG 17 years
	PG 17 years
	M.Phil. 4 years
<b>Research</b>	Guided M Phil: 2 Guided Ph D: Guiding Ph. D Scholar:

COURSES/ CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
B. Sc. Computer Science 1. Dot NET Programming 2. Data Structures and Algorithms 3. RDBMS and Oracle 4. Oracle and PL/SQL 5. Software Engineering 6. Operating	St. Xavier's College	Jun 2008	Till date	17 years

Systems 7. Unix and Shell Programming 8. Numerical Methods 9. Computer Networks 10. Web Designing 11. Cloud Computing 12. Information Storage Systems 13. PHP and MySQL 14. Discrete Mathematics				
M. Sc. Computer Science 1. DOT NET Programming 2. Distributed Computing 3. Data Mining 4. Analysis and Design of Algorithms 5. Web Application Development 6. Data Mining and Warehousing 7. Advanced Data Structures 8. Soft Computing 9. Internet Of Things 10. Object Oriented Analysis and Design 11. Advanced RDBMS	St. Xavier's College	Jun 2008	Till date	17 years
M. Sc. Information Technology 1. C++ Programming 2. Computer Networks 3. Data Structures and Algorithms 3. Oracle and PL/SQL 4. RDBMS Concepts and Oracle	St. Xavier's College	Jun 2008	Apr 2018	10 years
M. Phil. Computer Science	St. Xavier's College	Jun 2014	Apr 2018	4 years

1. Research Methodology				
2. Data Mining				

### OTHER EXPERIENCES

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Banyan Networks Pvt. Ltd.	Engineering Trainee	Software	Jan 1999	Dec 1999	1		
TENET Group, IIT – Madras, Chennai	Project Associate	Software	Feb 2000	April 2002	2	2	
TENET Group, IIT – Madras, Chennai	Project Officer	Software	April 2002	Sep 2002	-	5	
Rani Anna Govt. College for Women	Guest Lecturer	Teaching	Feb 2007	Apr 2008	1	3	

### AWARDS RECEIVED

1.	University Rank Holder in 1997
2.	Best Paper Award in 2019
3.	
4.	
5.	

### ADMINISTRATIVE EXPERIENCE

S. No	DESIGNATION	INSTITUTIONS	YEAR
1.	Vice Principal	St. Xavier's College	2023 – till date

### MEMBERSHIP

S. No	Designation	Particulars
1.	Student Alumni	Board of Studies at Sarah Tucker College
2.	Subject Expert	Board of Studies at Sarah Tucker College
3.	Subject Expert	Board of Studies at Sadakathullah Appa College in Computer Applications Department
4.	Subject Expert	Board of Studies at Sadakathullah Appa College in Information Technology Department
5.	University Nominee	Board of Studies at Sadakathullah Appa College in Information Technology Department
6.	Advisory Committee Member	International Conference on Computer Science and Technologies (ICCST 2025), Sarah Tucker College

**ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (UGC / HRDC / TLC-PMMNMT ONLY)**

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	On Going Faculty Development Training	Jesuit Higher Education Commission	Dindigul, 23 <sup>rd</sup> to 31 <sup>st</sup> May 2014
2	4-Week Induction/Training Programme for Faculty in Universities/Colleges/Institutes of Higher Education	Teaching Learning Centre, Ramanujan College, University of Delhi & Ministry of Education	Online 20 June – 19 July 2022
3	2-Week Refresher Course in “Managing Online Classes and Co-creating MOOCS 28.0”	Teaching Learning Centre, Ramanujan College, University of Delhi & Ministry of Education	Online 06 – 20 July 2023
4	NEP 2020 Orientation and Sensitization Programme	UGC-MMTTC	Online 22 <sup>nd</sup> to 30 <sup>th</sup> May 2025

**ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (SXC & Others)**

S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	5 Days Hands on FDP – Data Science using Python		JEPPIAAR Institute of Technology 18/5/2020-22/5/2020
2	National Level FDP on Internet of Things		Sarah Tucker College 18 & 19/6/2020
3	Three Days National Level FDP on “Knowledge Engineering”		Sarah Tucker College 6-8/7/2020

4	National Level Online FDP on “Things Speak”		SFR College 16/7/2020
5	Applications of Image Processing in MATLAB		Marcello Tech, Trichy 12th to 16th December 2022
6	FDP on Emerging Trends in Data Analytics and Machine Learning’		Karunya University (Deemed to be) 18th Sep 2023 to 22nd Sep 2023

### DETAILS OF RESEARCH WORK

Research Stages	Title of the Thesis	University where the work was carried out
	Enhancement of Dijkstra’s algorithm for optimizing path based on traffic congestion and emission using data mining	Karunya University

### AREAS OF RESEARCH

Data Mining
Optimization Techniques
Image Processing
Data Structures and Algorithms

### RESEARCH PROJECTS CARRIED OUT

S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration

<b>PUBLICATIONS</b>				
<b>BOOKS</b>	<b>BOOK CHAPTERS</b>	<b>SCOPUS</b>	<b>WEB OF SCIENCE</b>	<b>UGC LISTED</b>
	<b>1</b>	<b>1</b>		
<b>OTHER INDEXED</b>	<b>AS A RESOURCE PERSON</b>	<b>PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS</b>	<b>WEBINARS, SEMINARS, WORKSHOPS ATTENDED</b>	
<b>5</b>	<b>10</b>	<b>7</b>	<b>58</b>	

<b>PUBLICATIONS: BOOKS ()</b>			
<b>S. No</b>	<b>Title of the Book</b>	<b>Publication</b>	<b>Year</b>

<b>BOOK CHAPTERS ()</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Book</b>	<b>ISSN No., Pg.No</b>
1.	Classifying Road Traffic Data using Data Mining Classification Algorithms: A Comparative Study	Advances in Big Data and Cloud Computing	AISC, Springer, Volume 750, Pages 197-205

<b>PUBLICATIONS: SCOPUS INDEXED JOURNALS (1) WEB OF SCIENCE ()</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN No., Volume, Issue, Impact factor &amp; Pg. No</b>
1.	Classifying Road Traffic Data using Data Mining Classification Algorithms: A Comparative Study	Advances in Big Data and Cloud Computing	AISC, Springer, Volume 750, Pages 197-205

<b>PUBLICATIONS: UGC LISTED JOURNALS ()</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN No., Volume, Issue, Impact factor &amp; Pg. No</b>

<b>PUBLICATIONS: OTHER INDEXED JOURNALS (5)</b>			
<b>S. No</b>	<b>Title of the Paper</b>	<b>Name of the Journal</b>	<b>ISSN No., Volume, Issue, Impact factor &amp;Pg.No</b>
1.	Decision Tree Analysis to Predict Traffic Congestion in Transport Routing	International Scientific Journal on Science Engineering & Technology	ISSN: 2349-6657 Vo1 17, No. 10, November 2014
2.	A Survey on Transport Routing Techniques	International Journal of Applied Engineering Research	Vol 10, Number 45, 2015
3.	Educational Mining: A Comparative Study of Classification Algorithms Using Weka	International Journal of Innovative Research in Computer and Communication Engineering	ISSN: 2320-9801 Vol 5, Issue 3, March 2017
4.	Accuracy Improvement of C4.5 using K means Clustering,	International Journal of Science and Research	ISSN: 2319-7064 Vol 6, Issue 6, June 2017
5.	Survey on Fake Coin and Currency Detection	International Journal of Scientific Research Engineering & Technology	ISSN:2278-0882 Vol 7, Issue 4, April 2018

<b>AS A RESOURCE PERSON (8)</b>			
<b>S. No</b>	<b>Name of the Event</b>	<b>Name of the Sponsoring Agency</b>	<b>Place and Date</b>
1.	Workshop on PC Trouble Shooting		Rani Anna Govt College for Women, 2010
2.	Guest Lecture on Data Mining	-	Rani Anna Govt College for Women, 2012
3	Guest Lecture on Soft Computing	-	Sarah Tucker College, 2018
4	Association Inaugural Function		Department of Informstion Technology,



	Self-Actualization		Sadakathullah Appa College 02/09/2022
5	Association Inaugural Function Mastering the Art of Soft Skills		Department of Computer Science, Sadakathullah Appa College 10/08/2023
6	Induction Programme for Freshers – 2024 Creating Your Pathway to Success		Sarah Tucker College 23/07/2024
7	Motivational Talk Rewriting Your Mind for Achieving Goals		St.Xavier's College, Palayamkottai 05/10/2024
8	Paper Presentation Judge, ICAPO		St.Xavier's College, Palayamkottai 23/01/2025
9	Association Inaugural Function “Cultivating Intellectual Humility		Department of BCA, Sadakathullah Appa College, 31/07/2025
10	Paper Presentation Judge, International Conference		Sarah Tucker College 8/8/2025

**WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP**  
**PAPER PRESENTED: National (2) International (5)**

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1.	Transport Route Planning using Max Min Ant Colony Optimization Technique, Fourth National Conference on Exploration and iNovations In Advanced Computing (ENIAC '11)		National Engineering College 16 <sup>th</sup> Sep 2011
2.	A Survey on Transport Routing Techniques, NCRAIT'14.		SCAD college of Engineering, 2014
3.	A Survey on Transport Routing Techniques, International Conference on Emerging Trends in Science, Engineering, Business And Disaster Management		Noorul Islam University, 2015
4.	Classifying Road Traffic Data using Data Mining Classification Algorithms: A Comparative Study, 2 <sup>nd</sup> International Conference on Big Data and Cloud Computing		Karunya University, 2018
5.	Weighted Edge Length and Iterative Technique in Dijkstra's Algorithm for		Sri Ramakrishna Engineering

	Optimizing Traffic Congestion and Emission, First International Conference on “Intelligent Digital Transformation”		College, 11 <sup>th</sup> – 13 <sup>th</sup> July 2019
6.	Improving Accuracy of C4.5 Algorithm for measuring level of Traffic Congestion on Roads, International Conference on Soft Computing and Optimising Techniques		Kamaraj College, 9 <sup>th</sup> and 10 <sup>th</sup> August 2019
7.	Recent Advances in Deep Learning for Hyperspectral Image Classification: A Comparative Study, International Conference on Computer Science and Technologies (ICCST 2025)		Sarah Tucker College, 8/8/2025

<b>WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:</b>			
<b>S. No</b>	<b>Name of the Event</b>	<b>Name of the Sponsoring Agency</b>	<b>Place and Date</b>
1.	National Conference on Research and Application of Information Technology		SCAD College of Engineering & Technology 19 <sup>th</sup> March 2014
2.	International Conference on Emerging Trends in Science, Engineering, Business And Disaster Management		Noorul Islam University 27 <sup>th</sup> & 28 <sup>th</sup> February 2015
3.	One Day Workshop on Python Programming		Sarah Tucker College 10 <sup>th</sup> August 2018
4.	Two-day State Level Workshop on Pro Angular JS		Sadakathullah Appa College 27 <sup>th</sup> & 28 <sup>th</sup> February 2020
5.	Webinar on Reflections of Higher Education Scenario – Post Covid - 19		NAAC 13/5/2020
6.	International Webinar on “Research Experience on Digital Tools”		Sarah Tucker College 29/6/2020
7.	International Webinar on “Software Process Model”		Sarah Tucker College 12/6/2020
8.	Webinar on “Advantages and Adverse Effects of virtual classes with special reference to students”		East West College of Management, Bangalore 24/6/2020
9.	National Level Webinar on “Research Proposals Preparation for Funding Agencies in Social		St. Joseph’s College of Engineering 11/6/2020

	Science Studies”		
10	Webinar on “Scientific Analysis using Python”		Jagadguru College of Science 22/7/2020
11	Webinar on Touch Healing Therapy with Diamond Rules		SCAD Polytechnic College 29/7/2020
12	National Webinar on “Role of IoT in the field of Education”		MDT Hindu College 10/8/2020
13	International Seminar on “Human-Machine Teams: The Future of Work and Innovation”		Don Bosco College of Arts and Science, Eternal Scientific Publications 27/02/2025
14	International Conference on Computer Science and Technologies (ICCST 2025)		Sarah Tucker College 8/8/2025
15	Workshop on Full Stack Development		St.Mary's College (Autonomous), Thoothukudi, 18/8/2025

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Workshop on Weka		St. Xavier's College 09 <sup>th</sup> and 10 <sup>th</sup> March 2012
2	Orientation Programme for Teachers		St. Xavier's College 15 <sup>th</sup> June 2012
3	Orientation Programme for Teachers		St. Xavier's College 18 <sup>th</sup> & 19 <sup>th</sup> August 2012
4	National Conference on Emerging Challenges and Future Prospects in Computer Science & Applications		St. Xavier's College 12 <sup>th</sup> February 2013
5	National Conference on Recent Trends in Computer Algorithms		St. Xavier's College 13 <sup>th</sup> March 2013
6	Faculty Workshop on Competence Building		St. Xavier's College 15 <sup>th</sup> & 16 <sup>th</sup> March 2013
7	Workshop on Weka		St. Xavier's College 10 <sup>th</sup> January 2014
8	Orientation Programme for Teachers		St. Xavier's College 21 <sup>st</sup> January 2014
9	National Conference on Cloud Computing		St. Xavier's College 24 <sup>th</sup> January 2014
10	Orientation Programme for Teachers on Innovative Teaching		St. Xavier's College 5 <sup>th</sup> July 2014

	Strategies for Student – Centered Education		
11	National Conference on Recent Dimensions of Image Processing		St. Xavier's College 9 <sup>th</sup> January 2015
12	One day International Webinar on “Accelerating Education 4.0 using ICT Tools – Post COVID Paradigm”		IQAC, St. Xavier’s College 17/6/2020
13	International Webinar on “Emotional Wellbeing and Managing Stress”		St. Xavier’s College 24/6/2020
14	International Webinar on “Digital Accessibility Tech for Blind”		St. Xavier’s College 26/6/2020
15	National Level Webinar on “Data Analytics Technology Trends and Solutions		St. Xavier’s College 25/6/2020
16	National Webinar on “COVID – A Hidden War in Open Field”		IQAC, St. Xavier’s College 29/6/2020
17	National Level Webinar on “Insights of Block Chain”		St. Xavier’s College 29/6/2020
18	National Level Webinar on “Road map to Academic Research and Hidden Opportunities”		St. Xavier’s College 15/6/2020
19	National Level Webinar on “Online Education – Obstacles and Solutions”		IQAC, St. Xavier’s College 16/7/2020
20	National Webinar on “Tools for Interactive Content Preparation”		IQAC, St. Xavier’s College 24/7/2020
21	Two-day Workshop on Introduction to Robotics		St. Xavier’s College 9 <sup>th</sup> & 10 <sup>th</sup> January 2020
22	Orientation Programme for Teachers		15 <sup>th</sup> and 16 <sup>th</sup> July 2022 IQAC, St. Xavier’s College
23	SXC-Centenary-Faculty Empowerment Programme (FEP)		23 <sup>rd</sup> July 2022 IQAC, St. Xavier’s College
24	International Conference on “Mathematics & Informatics”		St. Xavier’s College, 29 <sup>th</sup> March 2023
25	Workshop on Aspects of Higher Education		IQAC, St.Xavier’s College, Palayamkottai 15.6.23
26	Orientation Programme for Teachers		St. Xavier’s College, 16 <sup>th</sup> and 17 <sup>th</sup> June

			2023
27	Five -day Virtual Faculty Empowerment Workshop on “E-content Preparation & ICT Tools”		IQAC, St.Xavier’s College 19.9.23, 26.9.23, 3.10.23,10.10.23, 17.10.23
28	Generative AI Tools and Its Applications for Industry 4.0 <b>(Organizing Secretary)</b>		St.Xavier’s College 27.02.2024
29	AI Tools for Teaching and Learning		IQAC, St.Xavier’s College 6.4.24
30	FEEP		St. Xavier’s College, 23/07/2024
31	FEEP		St. Xavier’s College, 08/08/2024
32	SEEP		St. Xavier’s College, 12/12/2024
33	SEEP		IQAC, St.Xavier’s College, Palayamkottai & Zoho Corporation Pvt. Ltd. 15/02/2025
34	National Conference on “Prospects and Challenges in Disruptive Technologies”		Department of Computer Science, St.Xavier’s College, Palayamkottai 06/12/2025

#### COUNTRIES VISITED


#### EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)



**Date: 18/08/2025**

**Name: J. Patricia Annie Jebamalar**