RESUME

Name: S Niraja P Rayen
Designation: Assistant Professor
Department: Computer Science
Address: A-54/1A, Third Main Road, Maharaja Nagar, Tirunelveli.

PERSONAL DETAILS

Date of Birth   : 20.10.1982

Qualification   : MCA., M.Phil., Ph.D.,

Designation   : Assistant Professor

Department   : Computer Science (Shift – II)

Community   : MBC

Religion   : RC

Nationality   : Indian

Mobile   : 9486891167

Email ID   : Niraja_cs@stxavierstn.edu.in

ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
B.Sc	Computer Science	Govindammal Aditanar College for Women, Tiruchendur	M S University	2003
MCA	Computer Applications	Fatima College, Madurai	M K University	2006

M.phil	Computer Applications		M S University	2014
Ph.D	Computer Applications		M S University	2023

ACADEMIC IDENTITY	
*VIDWAN ID	https://vidwan.inflibnet.ac.in/profile/406383
*ORCID ID	https://orcid.org/0000-0003-1976-779X
*SCOPUS ID	https://www.scopus.com/authid/detail.uri?authorId=57427996300
*RESEARCHER ID/ PUBLONS ID	
GOOGLE SCHOLAR LINK	

TEACHING EXPERIENCE	
Date of Appointment	19.06.2023
Date of Retirement	
Teaching Experience	UG 8 years
	PG 9 years
	M.Phil. - 2
Research	Guided M Phil: 1 Guided Ph D: Guiding Ph Scholar:

COURSES/ CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		
		From	**To**	**Years**
MCA	Arul Anandar College, Madurai	18.06.2009	20.10.2011	2.4 years
Diploma in Computer Science & Networking	St.Xavier's Polytechnic College, Seidunganallur	10.12.2011	02.06.2015	3.5 years
Computer Science (UG & PG, Mphil)	St.Xavier's College, Palayamkottai	17.06.2015	31.05.2018	3 years
MCA	Francis Xavier	18.06.2018	22.10.2019	1.4 years

	Engineering College, Tirunelveli			
Computer Science (UG & PG)	St.Xavier's College, Palayamkottai	19.06.2023	Till date	

AWARDS RECEIVED	
1.	Awarded as Best Research Paper in International Conference on ICRTMDR-18 held at A.P.C Mahalaxmi College for Women, Thoothukudi.
2.	Awarded as Best Research Paper in National Conference on FRPCSIT -2K17 held at Arul Anandar College, Karumathur, Madurai.

ADMINISTRATIVE EXPERIENCE			
S. No	DESIGNATION	INSTITUTIONS	YEAR

MEMBERSHIP		
S. No	Designation	Particulars
1.	Reviewer	University of Bahrain, College of Information Technology
2.	Reviewer	The International Journal of Computing and Digital Systems
3.	TPC Member	Lebanese International University

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	Publish with Purpose: Mastering the art of Academic	Research Colloquium, MCC	Madras Christian College, Chennai.

			Writing		02.06.25 to 11.06.25

S.No	Name of the Training	Name of the Sponsoring Agency	Place and Date
2	FDP on AI TOOLS:2025	AICTE	Francis Xavier Engg College, Tirunelveli. 17.02.25 to 21.02.25
3	STTP on Java Full Stack using React JS and AI	AICTE	Francis Xavier Engg College, Tirunelveli. 02.12.24-22.12.24 and 24.12.24
4	FDP on Artificial Intelligence's impact on Transforming Software, Robotics, Electrical, Electronics & Mechanical fields	National Mission on Education through ICT, MHRD	Dhaanish Ahamed College of Engineering,Chennai. 05-08-24 to 10-08.24
5	4 -Week Faculty Induction Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"	TLC-PMMNMT	22 July – 20 August, 2023
6	FDP on LaTex	National Mission on Education through ICT, MHRD	Karpaga Vinayaga College of Engineering & Technology, 25-05-2020 to 31-05-2020
7	FDP on PYTHON 3.4.3	Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching	Pragati Engg College, 08-06-2020 to 13-06- 2020

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (SXC & Others)			
S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Staff Enhancement and Empowerment Programme	IQAC, St.Xavier's College	St.Xavier's College, Tirunelveli 15.02.25
2	Staff Enhancement and Empowerment Programme	IQAC, St.Xavier's College	St.Xavier's College, Tirunelveli 12.12.24
3	Staff Enhancement and Empowerment Programme	IQAC, St.Xavier's College	St.Xavier's College, Tirunelveli 19.11.24 to 20.11.24
4	Faculty Enhancement and Empowerment Programme	IQAC, St.Xavier's College	St.Xavier's College, Tirunelveli 23.07.24
5	Refresher Course on "ICT-Enabled Teaching and Learning"	IQAC, St.Xavier's College	St.Xavier's College, Palayamkottai. 29 May – 14 June 2024
6	Online training programme on "AI - Tools for Teaching and Learning"	IQAC, St.Xavier's College	St.Xavier's College, Palayamkottai. 06 April 2024

7	Faculty Empowerment Programme on "Teacher-Student Relationship & Mentoring System	IQAC, St.Xavier's College	IQAC, St.Xavier's College, Palayamkottai. 4 December 2023
8	Faculty Empowerment Programme-01	IQAC, St.Xavier's College	St.Xavier's College, Palaymkottai. 22-07-2023
9	Orientation Programme for Teachers	IQAC, St.Xavier's College	St.Xavier's College, Palaymkottai. 16-06-2023 to 17-06-23
10	Faculty Induction Programme	Higher Education Commission, Jesuit Madurai Province	Sacred Heart College, Shembaganur 09-06-23 to 11-06-23
11	Machine Learning In Research Perspective	St.Joseph Group of Institution,	St.Joseph's Institute of Technology, 18-07-2020 to 22-07-2020
12	Promoting Critical Thinking & Research Paper Writing for Teachers	Institution's Innovation Council	MITS,03-08-2020 to 05-08-2020
13	Data Science using Python	AICTE	Shri Vishnu Engg College for Women, 07-12-2020 to 19-12-2020
14	Hands on Training on Cyber Forensics	AICTE& C-DAC	Francis Xavier Engg College, Tirunelveli. 30-08-2018 to 31-08-2018
15	Millennium Psychology of Students	IQAC, St.Xavier's College	St.Xavier's College, Palaymkottai. 14-06-2016 to 15-06-2016
16	J2EE and Best Practices in Application Development	ICT Academy of Tamilnadu	Kamaraj University, Madurai. 28.08.2009

DETAILS OF RESEARCH WORK		
Research Stages	**Title of the Thesis**	**University where the work was carried out**
Completed	An optimized feature-based framework for glaucoma detection in fundus image of the eye	M S University, Tirunelveli.
Completed	Performance analysis on retinal hemorrhage detection in fundus eye image.	M S University, Tirunelveli.

AREAS OF RESEARCH
Image processing
Machine Learning with AI
Data Analytics

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

PUBLICATIONS				
BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
	1	2		
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	
1	1	6	5	

PUBLICATIONS: BOOKS ()			
S. No	Title of the Book	Publication	Year

BOOK CHAPTERS (1)			
S. No	**Title of the Paper**	**Name of the Book**	**ISSN No., Pg.No**
1	Machine Learning Techniques for Glaucoma Screening Using Optic Disc Detection	Computational Intelligence: Theory and Applications	ISBN: 9781394214228, 321-347

PUBLICATIONS: SCOPUS INDEXED JOURNALS (2)WEB OF SCIENCE ()			
S. No	**Title of the Paper**	**Name of the Journal**	**ISSN No., Volume, Issue, Impact factor & Pg. No**
1	A Novel Visual saliency Thresholding Method for Accurate ROI Segmentation in Optic Disc from FEIs for Glaucoma detection	International Journal of Computing and Digital Systems	2210-142X, vol. 11, Issue.3, pp. 477-489.
2	Automated Glaucoma Detection from Fundus Eye Images Using Grey Level based Feature Extraction Methods and Supervised Learning Classification	Turkish Online Journal of Qualitative Inquiry	1309-6591 vol. 12, Issue. 3, pp. 2987-3008

PUBLICATIONS: UGC LISTED JOURNALS ()			
S. No	**Title of the Paper**	**Name of the Journal**	**ISSN No., Volume, Issue, Impact factor & Pg. No**

PUBLICATIONS: OTHER INDEXED JOURNALS (2)

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor &Pg.No
1	A Survey on Optic Disc Detection and Segmentation Techniques	Journal of Emerging Technologies and Innovative Research	2349-5162, vol-6, Issue.2, pp.258-263
2	Smart Blind Stick using LDR and Ultrasonic Sensor	International Journal of Advanced Research in Basic Engg Science & Technology	2456-5717, vol.4, No.11,online No.40064960

AS A RESOURCE PERSON (1)

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Five Days Online Faculty Development Program on "Empowering Minds through AI: Using Innovative Strategies forEffective Problem Solving"	Department of Computer Applications, Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh, India	07-04-2025 to 11-04-2025

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP PAPER PRESENTED: National (3) International (3)

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	International Conference on Networks, Image and Security	AICTE	Noorul Islam Centre for Higher Education, Thuckalay. 10-04-2019 to11-04-2019
2	International Conference on Recent Trends and Challenges in Healthcare Informatics	AICTE	Kongu Engg College, Perundurai 12-12-2019 to 13-12-2019
3	International Conference on Recent Trends in Multi-Disciplinary Research	IFERP	A.P.C Mahalakshmi College for Women, Thoothukudi. 20-12-2018 to 20-12-2018
4	National Conference on Future Research Perspectives in Computer Science and Information Technology	Dept of CS & MCA Arul Anandar College, Madurai.	Arul Anandar College, Madurai. 21-02-2017 to 22-02-2017
5	National Conference on Emerging Trends in Software Technologies	Dept of CS Arul Anandar College, Madurai.	Arul Anandar College, Madurai. 10-03-2011 to 11-03-2011
6	National Conference on Advanced Computing	PG & Research Dept of CS, Jamal Mohamed College, Trichy	Jamal Mohamed College, Trichy. 24-03-2010

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	National Conference on Prospects and Challenges in Disruptive Technologies	Research Department of Science, St.Xavier's College, Tirunelveli	St.Xavier's College, Tirunelveli, 06.12.24
2	Generative AI tools and its applications for industry 4.0	Research Department of Computer Science St.Xavier's College, Palayamkottai.	St.Xavier's College, Palayamkottai. 27 February 2024
3	Five -day virtual Faculty Empowerment Workshop on "E-Content Preparation & ICT - Tools	IQAC, St.Xavier's College, Palayamkottai.	St.Xavier's College, Palayamkottai.19 &26 September and 03, 10 & 19 October 2024
4	Webinar on Academic Publishing Ranking and its Insights	Dept of CSE, FX Engg College	FX Engg College, Tirunelveli. 12-05-2020
5	Webinar on Tools for Making your Thesis Complete	AICTE	Usha Rama College of Engg and Technology, AP 07-06-2020
6	National Webinar on Developing JSF Web Applications with Hibernate - A Hands on Approach	Dept of CS, Bishop Heber College	Bishop Heber College, Trichy. 06-06-2020
7	National Webinar on Research Methodology	Loyola College.	Loyola College, Chennai. 12-06-2020 to 13-06-2020
8	International Webinar Recent Trends in Brain Computer Interface with Machine Learning Techniques	Department of Software Engineering, SRM Institute of Science and Technology.	SRM Institute of Science and Technology, Chennai. 09-10-2020 to 10-10-2020
9	National Level Webinar on Research Articles Writing and Journal Publications in Scopus and SCI Journals	Dept of CS, Sri Krishna Adithya College of Arts and Science	Sri Krishna Adithya College of Arts and Science, Coimbatore 16-02-2021
10	International Webinar on Recent Advancements in Machine Learning	Dept of CS and MCA Arul Anandar College, Madurai	Arul Anandar College, Madurai. 18-03-2021 to 19-03-2021
11	Seminar on Recent Research Trends in Computer Science	Dept of CSE, MS University	MS University, Tirunelveli, 08-10-2021
12	National Seminar on Recent Trends & Research Directions of Deep Learning in Natural Programming Languages	CIIL	National Engg College, Kovilpatti. 29-01-2020 to 30-01-2020
13	International Seminar on Recent Trends in Computing Technologies	Dept of CS & IT, Wavoo Wajeeha Women's College.	Wavoo Wajeeha Women's College. Kayapatnam, 22-08-2019

14	Seminar on Psychology of Students	IQAC, St.Xavier's College	St.Xavier's College, Palayamkottai, 30-09-2016
15	National Conference on Machine Learning	UGC	St.Xavier's College, Palayamkottai, 13-03-2019
16	National Conference on Recent Trends in Data Mining	UGC	St.Xavier's College, Palayamkottai, 09-02-2017
17	National Conference on Big Data Analytics	UGC	St.Xavier's College, Palayamkottai, 26-02-2016
18	National Conference on Data Mining and its Applications	UGC-TNSCST	Arul Anandar College, Madurai. 09-12-2009 to 10-12-2009.
19	Workshop on Aspect of Higher Education	IQAC, St.Xavier's College	St.Xavier's College, Palayamkottai, 15-06-2023
20	Online Workshop on Patent Awareness	IQAC, NICHE	NICHE, Kumarcoil 21-04-2021
21	Workshop on AI in Computer Vision	IIC	SRM Institute of Science and Technology, Chennai. 16-09-2021 to 17-09-2021
22	Workshop on Impact of IoT in Cyber Crime & Cyber Forensics	Dept of CSE, MS University	MS University, Tirunelveli, 11-11-2019
23	Workshop on Automated Software Testing Tools	Dept of MCA, Mepco Schlenk Engg College.	Mepco Schlenk Engg College, Sivakasi 18-07-2019 to 20-07-2019.
24	Workshop on Art of Writing Funding Proposals and Research Articles	ICT	Kings Engg College, Chennai. 17-11-2017
25	Workshop on Digital Image Processing using PSO	Dept of CS, St.Xavier's College	St.Xavier's College, Palayamkottai, 18-09-2015
26	Workshop on Software Testing	Dept of Computer Science, Arul Anandar College, Madurai	Arul Anandar College, Madurai. 12-03-2010

COUNTRIES VISITED			

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

Date: **Name:**