Name	**:** Ms R.Indra	
Designation	**:** Assistant Professor	
Department	**:** PG & Research Department of Computer Science	
Qualification	**:** M.SC.,M.Phil.,M.C.A.,(Ph.D).,	
Experience	**:** Teaching : 32	Research: 14
Area of Specialization(s)	**:** Artificial Neural Networks,	
Email (Official ID)	**:** **indra@sigc.edu**	
Aadhaar Number	**:** 9743 6117 1789	

Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D	Computer Science	Bharathithasan University	Pursuing
M.C.A.,	Computer Applications	Periyar University	2009
M.Phil.,	Computer Science	St.Joseph's College	2004
M.Sc.,	Computer Science	Shrimati Indira Gandhi College	1992
B.Sc.,	Computer Science	Shrimati Indira Gandhi College	1990

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Diploma	RPA Citizen Developer	UiPath	2023
Diploma	Foundation Training	UiPath	2023
Diploma	Automation Explorer Training Developer Associate Training	UiPath	2024

Research Publications (Indexed)

International: 13

1. "Big Data Approach for Epidemiology and Prevention of HIV/AIDS", International JournalofEmergingTechnologiesandInnovativeResearch([WWW.jetir.org),ISSN:2349-5162,vol.6](WWW.jetir.org), issue6,pageno.44-50, June2019.

2. **"ANewMachineLearningModelbasedonintroductionofRulesforAutismDetection",**internationaljournalofEmergingTechnologiesandInnovativeResearch(WWW.jetir.org), ISSN:2349-5162,Vol.6,Issues 6,Pageno.69-74,June 2019.

3. **A data stream mining technique dynamically updating a model with dynamic changesof data distributions**International Research Journal of Engineering and Technology(IRJET) e-ISSN: 2395-0056 Volume: 05 Issue: 08Aug 2018 www.irjet.net p-ISSN: 2395-0072.

4. **StrategyofAutomatedClinicalPracticesforReadingElectronicHealthRecordsDynamically AccordingToTheReal-TimeFluctuationofThePatient'sCondition**InternationalJournalforScienceandAdvanceResearchinTechnology(IJSART)-Volume3Issue 8–AUGUST2017 ISSN[ONLINE]: 2395-1052

5. **ScalableDynamicNetworkswithInfluentialNodeTrackingUnderAnInterchangeGreedyAlgorithm**InternationalJournalforScienceandAdvanceResearchinTechnology(IJSART)-Volume3 Issue8–AUGUST2017ISSN[ONLINE]:2395-1052

6. **A Distributed framework for mobile data gathering with concurrent data uploading &DataRetrievalschedulinginwirelesssensor.**InternationalResearchJournalofEngineering and Technology (IRJET) e-ISSN: 2395 -0056 Volume: 03 Issue: 07 | July-2016www.irjet.netp-ISSN:2395-0072.

7. **AnalyticalPerformanceModelforState-BasedMACLayerCooperativeRetransmissionProtocols**.Volume3,Issue6,June2016.InternationalJournalofResearch ScienceandEngineering.ISSN: 2212-4102,pgNo1-6

8. **An Analysis of Rule based Mining for Protein Phosphorylation Protocol for PredictingUser Behaviour Using Call Data**. Volume 3, Issue 10, 2015. International Journal forScientificResearchand Development.ISSN:2321-0613.Pg No 1117 –1119.

9. **An Efficient Protocol for Predicting User Behaviour Using Call Data**. Volume 3, Issue 10,2015. International Journal for Scientific Research and Development. ISSN: 2321-0613.Pg No1120–1122.

10. **Credit Transfer in Mobile Communication Using NFC**. Volume 3, Issue 9, September2015. International Journal of Advanced Research in Information and CommunicationEngineering.ISSN:2321 -8762,PgNo: 1-5.ImpactFactor 1.307.

11. **Near Field Communication in Mobile Technology**. Volume 2, Issue 8, August 2015.International Journal of Innovative Science, Engineering and Technology. ISSN: 2348-7968,pgNo363-368.

12. **Identity Identification and Contactless Technology Using Near Field Communication(NFC).**Volume 4, Issue 8, August 2015. International Journal of Emerging Research inManagement andTechnology.ISSN:2278-9359,pgNo162 –171.

13. **Near Field Communication Technology: at the Present time in addition to Future**.Volume 5, Issue 7, July 2015. International Journal of Advanced Research in ComputerScience andSoftware Engineering. ISSN:2277128, pgNo376–379.

Book Publications: 1

Robotic Process Automation: Lab Manual

LAP LAMBERT Academic Publishing (June 9, 2022)

➢ https://www.morebooks.de/shop-ui/shop/product/9786204956800

➢ https://www.amazon.ca/Robotic-Process-Automation-Lab-Manual/dp/6204956809

Published Book chapter titled Big Data – Analysis in the edited book Furistic Trends in Computing Technologies and Data Science Volume 3 Book 2 in IIP Series on 30th April 2024.

Presentations in Conference: 1

➢ Presented a paper entitled NFC Mobile Payment Environment System

Participation in Conference: 1

➢ CSI – 2015; 50th Golden Jubilee Annual Convention on "Digital Life: held at New Delhi.

*National***:**

➢ Participated in Deliberation of the National Conference on "Emerging **Trends in Computer Science** "held at **Sengamala Thaayar Educational Trust Women's College, Mannargudi**, Organized by Department of CS,IT on 20th JAN 2012.

➢ National level conference on **Bioinformatics tools for Gene&ProteinAnalysis**"inComputer Science ,IT& MCA Dept at Shrimati Indira Gandhi College, in association with bioinformatics centre, central Agricultural Research Institute(CARI) ,Port Blair, Andaman &Nicobar Islands held at SIGC on Trichy on7th&8thSep2007.

- NSC-2001–**National conference of ITand its Applications** organized by CSI Women's students branch of SIGC, CSI Trichy Chapter14.9.2001to16.9.2001at Hotel Femina,Trichy
- Attended UGC Sponsored State Level Conference On **TrendsinClient/ServerComputing** held at Shrimati Indira Gandhi College on 25th&26thMarch1997

Participation in Seminars

- National seminar on **Cloud Computing** organized by **Bharathidasan University Technology Park** in association with Department of IT, CS and MCA (AICTE Approved) and CSI trichy chapter on26th **Sep2012held** atBUTP, Trichy-24.
- International workshop on "**Statistics for Proteomics and Clinical Research**"(SPAC - 2012)organizedby**DepartmentofStatistics,BUTP**andDepartmentofMCA,IT,CS and
- Biochemistry of SIGC, held at Department of Statistics, **Bharathidasan University** on 7th Aug2012.
- Participated in the National level Seminar on "**High Performance Computing**" Organized by PG Dept of Computer Science , (MCA-AICTE Approved) and Department of Information Technology of SIGCheldon23.2.2012
- Participated in the SEMINAR /WALK on HUMAN RIGHTS held at Bishop Heber College,Trichy on December 9,2010ontheeveWorld Human Rights Day.
- State level Seminar on"**Computer Oriented Mathematical Techniques 2007**"at Shrimati Indira Gandhi College, Trichy on10th&11thAug2007.
- National level Seminar on **Emerging trends of Mathematical techniques and their applications in computer science** "at Shrimati Indira Gandhi College, Trichy on 23rd &24th Feb 2007.
- State level Conference on "**Current trends in Research field of Computer Science** held at Shrimati Indira Gandhi College, Trichyon13th&14th Oct2006.
- UGC Sponsored Seminar on **Cyber Impact on society** held on 11.2.2004 and 12.2.2004 at Seethalakshmi Ramaswamy College,Trichy-2.
- HCL Info system Ltd., System support Organization Technology seminar on **e-learning** at Jennies Residency on Dec 20th 2003.
- Attended one day Seminar on "**New Trends in Advertising**" organized by Dept of CS &Commerce & Business Administration of Srimad Andavan Arts & Science College, Trichy heldon27th Feb2002.

- NSC-2001–**NationalconferenceofITanditsApplications**organizedbyCSIWomen's StudentsbranchofSIGC, CSITrichyChapter14.9.2001to16.9.2001atHotelFemina,Trichy

- AttendedUGCSponsoredStateLevelConferenceOn**TrendsinClient/ServerComputing** heldatShrimatiIndiraGandhiCollegeon25th&26thMarch1997

Participation in Workshop

- Three days online National Workshop on "Micro controller and its Applications" Conducted by NISHITHA Degree College in NIZAMABAD from 23.5.2021 to 25.5.2021.

- One day workshop on "**HUMAN COMPUTER INTERACTION**" jointly organized by Computer Society of India along with students branch of Jamal Mohamed College, women student branch of Shrimati Indira Gandhi College, Student branch of Saranathan Engineering College on 28thFeb 2015 at Hotel Sangam .

- International workshop on "**Statistics for Proteomics and Clinical Research**"(SPAC - 2012) organizedby**DepartmentofStatistics,BUTP**andDepartmentofMCA,IT,CS and Biochemistry of SIGC, held at Department of Statistics, **Bharathidasan University** on 7th Aug2012.

- Regional Level workshop on "**Information Communication Technology-Trends &Techniques**", jointly organized by **BUTP**, CSI, PG Department of Computer Applications of SIGC, held on21.11.2009atSIGC,Trichy-2.

- Oneday workshop on Human Rights held at Bishop HeberCollege,Trichy on December 10, 2008 on the **World Human Rights Day.**

- Oneday workshop on **Importance of Biodiversity** Sponsored by Ministry of Environment and forest organized by Periyar E.V.R.College on March 4th and5th2008.

- One day workshop on **Human Rights** held on 10.12.2007 on the World Human Rights Day at Cauvery College for Women, Trichy.

- One day workshop on **Environmental Awareness** held on Bharathidasan University Exnora on 28.08.2007 at Tiruchirappalli District youth&studentsExnora,Trichy-18.

- One day workshop on **Software Development trends in technologies and methodologies** held at BUTP, Trichy on19-03-2007asDelegate.

- Oneday workshop on **Research Methodology** on 5.1.2005atSIGC.

- Attended two day I3 Workshop on "**Industries – Institutions** conducted by Computer Society of India Trichy chapter, CSI women's student branch of SIGC, IUCT of Trichy,BHEL Small scale industries Associations, held on 6th&7th Jan2005.

- Attended one day Workshop on **Patent Awareness** conducted by Tami Nadu State Council for Science &Technology, Chennai, in association with patent office, Chennai, held at Shrimati Indira Gandhi College, Trichy on26th Mar2004.
- Twoday workshop on **Remote Sensing** Conducted by BARD university – State Level held on Feb12th and13th 2001
- Attended **National Science Day** Celebrations conducted by Bharathidasan University,Trichy on10th July1999

Participation in Orientation Programme/ShortTerm Courses

- Refresher Course in **Environmental Education** (for teachers of all subjects with Grade – 'A' conducted by UGC Academic Staff college, **Bharathidasan University**, Trichy, November 2004.

Participation in Faculty Development Programme

- Refresher Course in **Environmental Education** (for teachers of all subjects withGrade – 'A'conducted by UGC AcademicStaffCollege, **Bharathidasan University**, Trichy, November2004
- Participated intwo days training program on **Essentials of C#** conducted by MicrosoftCorporate & ICT Academy of Tamil Nadu held at **Bharathidasan University** , on 26th and 27thMarch2010.
- Participated in Eight days training program on **Certificate in.NET Programming** conductedby ICT Academy of Tamil Nadu heldat **Saranathan College of Engineering**, Trichy, from 11AUG2010to19AUG2010.
- Participated in Eight days training program on **Certificate inJ2EE Programming** conductedby ICT Academy of Tamil Nadu held at **Periyar Maniammai University**, Vallam, from 07 FEB2011to14FEB 2011.
- Participated in oneday program on current trends in software engineering: DEVOPS overview conducted by Bishop Heber College,Trichyon13.5.2020.
- Participated in three days self learning program in LATEX and XFIG conducted by spoken tutorial-IITBombayatSt.Joseph's Institute of Technology, Chennai from 15.5.2020 to 17.5.2020.
- Participated in five days program in Sensitization and Human rights conducted by Sathya Bama Institute of Science & Technology, school of law in association with faculty of Law SYIAHKULA University, Indonesia, from 18.5.2020to22.5.2020.

- Participated in three days self learning in SCILAB conducted by spoken tutorial IIT-Bombay, Organized by St.Joseph's Institute of Technology, Chennai from 25.5.2020 to 27.5.2020.
- Participated in one day program in Accelerate your Network skills using CISCO packet tracer conducted by CISCO and organized by Cauvery College for Women on 12.6.2020.
- ParticipatedinonedayskilldevelopmentonperformanceEngineeringbyCISCO&MICROSOFT certified trainer organized by Jain Deemed University, Bangalore on 29.6.2020.
- Participated in one week online short term program on Computer Networks organized by Arasu Engineering College, Kumbakonam from 6.7.2020to11.7.2020.
- Paricipated in five days online program in Innovative Strategies in Emerging Technologies conducted by IGL Handson Private Ltd USA, organized by Rajapalyam Raju's College Rajapalayam from 20.7.2020 to24.7.2020.
- Participated in three days online faculty development program in E-content Development &online teaching tool organized by Bhahuro Karnataka College, Belgum, Karnatanaka from27.7.2020to29.7.2020.
- Participated in fivedays online FDP in ANGULAR JS organized by ICTAcademy from 24.5.2021to28.5.2021.
- Attended a Faculty Development Programme on "RPA Design and Development v3.0 – Educator Readiness program" organized by UiPath Academic Alliance on 22nd Nov 2021 to 26th Nov 2021.
- Attended an International Conference on "RECENT TRENDS IN CYBER SECURITY"
- Conducted by Shrimati Indira Gandhi College, Trichy on 15th December 2021.
- Attended a Faculty Development Programme on "Step into RPA" in UiPath Academic Alliance on 16.12.2021.
- ParticipatedinfivedaysonlineFDPinANGULARJSorganizedbyICTAcademyfrom24.5.2021to28.5.2021.
- 1st step towards a career in Data Science by attending the Statewide Data Science Bootcamp conducted from 1.3.2021 to 5.3.20221 by InLustro.
- Participated in three days Faculty Development Programme on "Exploring Python Packages for Data Analysis organized by Department of computer Science, ThassimBeevi Abdul Kader College for women on 26.8.2021 to 28.8.2021.

- Attended Webinar on "Application of Cognitive Technologies in Industry 4.0" organized by Department of Computer Science, Baba Ghulam Shah Badshah University, Rajouri on 18.9.2021.
- Participated in three-day Professional Development programme on Learning through Gamification:" fun in the Future" organized by IQAC, Nirmala College, Muvattupuzha from 22.9.2021 to 24.9.2021.
- Attended a Faculty Development Programme on "RPA Design and Development v3.0 – Educator Readiness program" organized by UiPath Academic Alliance on 22nd Nov 2021 to 26th Nov 2021.

- Attended an International Conference on "RECENT TRENDS IN CYBER SURITY" in virtual mode on 15.12.2021 organized by the department of computer science, Information Technology and Computer Applications, conducted by Shrimati Indira Gandhi College, Trichy on 15th December 2021.

- Attended a Faculty Development Programme on "Step into RPA" in UiPath Academic Alliance on 16.12.2021.

- Attended a Faculty Enrichment Programme on "INTRODUCTION TO CLOUD COMPUTING" Organized by Shrimati Indira Gandhi College on 26th Feb 2022.
- Six Day National Level Virtual FDP on " Aligning with the New Educational Era" By Primax Foundation, St. Claret College, St. Francis College of Bengaluru with SIGC From 21/02/2022 to 26/02/2022.

- Participated in one week online faculty development programmeon , "Communication Systems using Machine Learning Algorithms", organized by the Department of Electronics and Communication Engineering, Annamacharya Institute of Technology and Sciences, Hyderabad , during 14.3.2022 to 19.3.2022.

- Participated in One Week Online International FDP on Next Generation Computing: key Trends, Challenges and Opportunities organized by the Department of Computer science & Applications, SRM Institute of Science & Technology, Ramapuram campus from 18.4.2022 to 23.4.2022.
- Participated in "RPA Developer Foundation" Diploma Course in UiPath Academic Alliance on 27.04.2022 to 11.05.2022.

- Participated in Five Days Virtual Faculty Development Programme on "Positive Aspects of Teaching Practices" held on 20.2.2023 to 24.2.2023 organized by IQAC and PG & Research Department of Commerce, Theivanai Ammal College for women, Villupuram.

- Participated in the Faculty Development Programme in Selection of Scholarly Journals & Web Visibility - Strategies and Techniques held from 20.02.2023 to 28.02.2023 at Dhanraj Baid Jain College, Thoraipakkam, Chennai-600 097.

- Participated in five days Faculty Development Programme on "Influence of AI in Teaching & Research" held from 04.09.2023 to 09.09.2023 organized by Department of Commerce with Computer Applications, Hindusthan College of Arts & Science, Coimbatore-28.

- Participated in the webinar on STEM Robotics for Educators conducted by upEducators on 5.09.2023.

- Participated in IP awareness Training program under National Intellectual Property Awareness Mission on 26.4.2023 organized by Intellectual Property Office, India.

- Participated in the Seven Days International Level Virtual Faculty Development Programme on "Power of Positivity Approach in Teaching & Learning System of Cultural Transformation" held on 19.09.23 -26.09.2023, organized by the Department of Commerce with Professional Accounting and Accounting & Finance 2023-2024.

- Participated in the Faculty Development Program on "Redefining Research Skills:Enriching Research and Publication " from 1st April 2024 to 5th April 2024 organized by the Research and Development cell of Shrimati Indira Gandhi College,Trichy-2.

- Participated in 5 Days –Online Faculty Development Program on "Artificial Intelligence's Impact on transforming Software Robotics, electrical ,Electronics& Mechanical Fields held from 29th August to 3rd September 2024 organized by Dhaanish Ahmed College of Engineering, Chennai.

- Participated in the one week faculty Development Program on "Innovative Pedagogical Techniques in Management Education" held from 21st October 2024 to 25th October 2024 organised by kamal Institute of Higher Education and Advanced Technology ,New Delhi in Association with ojha publication and Research House,new Delhi

Conference/Seminar/Workshop Organized

- Participated in the webinar on "How to Publish a Book with ISBN" on 27.10.2022 by Iterative International Publishers, USA.

- Participated in "RPA Citizen Developer Foundation" Diploma Course in UiPath Academic Alliance on 30.01.2023 to 03.02.2023 & Badge.

- Design Patent issued IPR on 16.12.2024 An Apparatus for Soil Moisture Detection at the patent office, Government of India.

- Participated in a One-week International Virtual Workshop on excellence in Research Methodology held from 23rd September 2024 to 28th September 2024 organized by the Department of English and other Foreign Languages, Faculty of Science and Humanities, SRM Institute of Science and Technology, Ramapuram, Chennai.

- Participated in the "Steps to write persuasive project proposal" organised by the Internal Quality Assurance Cell, Dr.M.G.R Educational and Research institute on 27.11.2024.

  - Three days online National Workshop on "Micro controller and its Applications"
  - Conducted by NISHITHA Degree College in NIZAMABAD from23.5.2021to25.5.2021.

- Attended Impact Lecture Session on Block Chain Technology & it's application and Digitization for Economic Growth and Job Opportunity organized by Institution Innovation Council of College and Sponsored by MoE's Innovation Cell, New Delhi, on 10.6.2022 at Smt.RadhadeviGoenka College for women, Akola.

- National seminar on **Cloud Computing** organized by **Bharathidasan University Technology Park** in association with Department of IT, CS and MCA (AICTE Approved) and CSI trichy chapter on26th Sep2012held at BUTP, Trichy-24.

- International workshop on "**Statistics for Proteomics and Clinical Research**"(SPAC -2012) organized by **Department of Statistics, BUTP** and Department of MCA,IT,CS and

- Biochemistry of SIGC, held at Department of Statistics, **Bharathidasan University** on 7th Aug2012.

- Participated in the National level Seminar on "**High Performance Computing**" Organized by PG Dept of Computer Science , (MCA-AICTE Approved) and Department of Information Technology of SIGC held on 23.2.2012

- Participated in the SEMINAR /WALK on HUMAN RIGHTS held at Bishop Heber College, Trichy on December 9,2010ontheeveWorld Human Rights Day.

- Nationallevelconferenceon**BioinformaticstoolsforGene&ProteinAnalysis**"inComputer Science, IT& MCA Dept at Shrimati Indira Gandhi College, in association with bioinformatics

centre, central Agricultural Research Institute(CARI) ,Port Blair, Andaman &Nicobar Islands held at SIGConTrichy on7ᵗʰ&8ᵗʰSep2007.

- National level Seminar on **Emerging trends of Mathematical technique sand their applications in computer Science"** at Shrimati Indira Gandhi College, Trichy on 23ʳᵈ & 24ᵗʰ Feb2007.

- State level Conference on "**Current trends in Research field of Computer Science** held at Shrimati Indira Gandhi College, Trichy on13ᵗʰ&14ᵗʰ Oct2006.

- UGC Sponsored Seminar on **Cyber Impact on society** held on 11.2.2004 and 12.2.2004 at Seethalakshmi Ramaswamy College,Trichy-2.

- HCL Info system Ltd., System support Organization Technology seminar on **e-learning** atJennies Residency onDec 20ᵗʰ 2003.

- Attended one day Seminar on "**New Trends in Advertising**" organized by Dept of CS &Commerce & Business Administration of Srimad Andavan Arts & Science College, Trichy heldon27ᵗʰ Feb2002.

- NSC-2001–**NationalconferenceofITanditsApplications**organizedbyCSIWomen's

- Students branch of SIGC,CSI Trichy Chapter14.9.2001to16.9.2001at Hotel Femina,Trichy

- Attended UGC Sponsored State Level Conference On **Trends in Client/Server Computing**

- Held at Shrimati Indira Gandhi College on 25ᵗʰ&26ᵗʰ March1997.

- Regional Level workshop on "**Information Communication Technology-Trends &Techniques**", jointly organized by **BUTP**, CSI, PG Department of Computer Applications of SIGC,held on21.11.2009atSIGC,Trichy-2.

- One day workshop on Human Rights held at Bishop Heber College,Trichy on December10,2008 on the **World Human Rights Day.**

- Onedayworkshopon**ImportanceofBiodiversity**SponsoredbyMinistryofEnvironmentandforesto rganized by Periyar E.V.R.College on March 4ᵗʰ and5ᵗʰ 2008.

- One day workshop on **Human Rights** held on 10.12.2007 on the World Human Rights Dayat CauveryCollegeforWomen,Trichy.

- One day workshop on **Environmental Awareness** held onBharathidasan University Exnora on 28.08.2007atTiruchirappalli District youth & studentsExnora,Trichy-18.

- One day workshop on **Software Development trends in technologies and methodologies** held at   BUTP,Trichyon19-03-2007asDelegate.

- One day workshop on **ResearchMethodology** on 5.1.2005 at SIGC.

- Attended two day I3 Workshop on "**Industries – Institutions** conducted by Computer Society

of India Trichy chapter, CSI women 's student branch of SIGC, IUCT of Trichy, BHEL Small scale industries Associations, held on 6th&7th Jan2005.

➢ Attended one day Workshop on **Patent Awareness** conducted by Tami Nadu State Council for Science &Technology, Chennai, in association with patent office, Chennai,held at Shrimati Indira Gandhi College,Trichy on2 6th Mar2004.

➢ Two day workshop on **Remote Sensing** Conducted by BARD university – State Level heldonFeb12th and13th 2001

➢ Attended **National Science Day** Celebrations conducted by Bharathidasan University,Trichy on 10th July1999

Member in BoS

➢ University Representative to the board(s) of studies in Computer Science, St.Joseph's College (Autonomous) ,Trichirappalli-620 002, with effect from 02.02.2024.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Board of Studies	Bharathidasan University	3 yrs or till the end of retirement

Awards/ Honors

Awards/ Honors	Agency/ Institute	YearofAward
Distinguished Service Award	Shrimati Indira Gandhi Collge	2025
UiPath Academic Alliance Educator https://credentials.uipath.com/profile/msindrar158832/wallet	UiPath	2024
Best Teacher Award	Jamal Mohamed College(Autonomous) .Kanmalai Trust & CADD Centre	2023

Recognition National/ International

Nature of Recognition	Organization/Institution	Year
UiPath Academic Alliance Partner https://credentials.uipath.com/profile/msindrar158832/wallet	UiPath	2021
UiPath Community Forum Recognition – Second Winner https://forum.uipath.com/t/announcing-our-educator-community-academic-alliance-giveaway-winners/542802	Educator Community Academic Alliance Giveaway Winners.	2023