RESUME

Dr. M.SORNALAKSHMI,

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OBJECTIVE:

- To build my career in the world of Information Technology, this provides a challenging working environment and supports people with innovative ideas to bring out my technological expertise.

- To get recruited in your esteemed concern, to develop and utilize my skill to work with full spirit and love.

- Hard working optimistic, good team spirit, self determination and confidence.

ATTRIBUTES:

- Quick to learn new skills and ideas
- Very innovative and creative
- Use spatial visualization
- Adaptable to many situations

EXPERIENCE PROFILE:

Period	Institution Name	Designation
June 2011-Up to this date(11 Years)	Arulmigu Kalasalingam College of Arts and Sciences, Srivilliputhur	Assistant Professor in Computer Science Dept
June 2007-Sep 2010 (3.3 Years)	Arulmigu Kalasalingam College of Arts and Sciences, Srivilliputhur	Assistant Professor (IT Dept)
July 2006-Jun 2007 (1 Year)	Priyadarshini Polytechnic College, Vaniyambadi,Vellore Dist.	Assistant Professor (Computer Science Dept)
Aug 2005-July 2006 (1 Year)	Sri Nagalakshmi Ammal College of Science, Pappunaickenpatty, Kallupatti,Madurai district	Assistant Professor (IT Dept)

ACADEMIC CHRONICLE:

Qualification	Institution Name	Year of passing	% of Marks
Ph. D (Computer Science)	Kalasalingam Academy of Research and Education, krishnankoil	4th July 2022	--
M.Phil., (Computer Science)	Madurai Kamaraj University, Madurai	April-2007	56.4
M.Sc., (Computer Science)	Ayyanadar Janaki Ammal College, Sivakasi	April-2000	61.22
B.Sc., (Physics)	Sermathai Vasan College for Women, Madurai	April 1998	60.3%

TECHNICAL EXPERTISE:

Operating Systems   :   DOS 6.22, Windows NT ,Windows XP, MS-DOS, Linux, Windows98, 2000, 2003, 2007

Programming Languages :   C, C++, Java, SQL Plus, HTML 4.0, Python, MAT LAB

Web Applications   :   HTML, JSP, Java Script, VB Script, Servlets, PHP

GUI   :   Visual Basic 6.0, VB.Net

Account's Software   :   Tally 5.4, 6.3,9.0

Databases   :   MS-Access, Oracle 9.0, SQL Server 2005, Visual Foxpro 6.0.

Packages   :   MS Office, Front Page, Photoshop, CorelDraw, FoxPro 2.5, Photo Shop CS

Ph. D
List of journal Publications

1. Sornalakshmi M , Balamurali. S, Venkatesulu M Navaneetha Krishnan M , Lakshmana Kumar Ramasamy, SeifedineKadry, Gunasekaran , Manogaran, Ching-Hsien Hsu (2020) An efficient apriori algorithm for frequent pattern mining using mapReduce in healthcare data. Bulletin of Electrical Engineering and

Informatics Vol. 10, No. 1, February 2021, pp. 390~403 ISSN: 2302-9285, DOI: 10.11591/eei.v10i1.2096.

2. Sornalakshmi M, Balamurali S, Venkatesulu M (2017) Multi Agent Based Density Estimation Technique for Association Rule Generation Using Semantic Ontology . Journal of Advanced Research in Dynamical & Control Systems. 11-Special Issue, July 2017 , PP. 511-512 , ISSN 1943-023X .

3. Sornalakshmi M, Balamurali S, Venkatesulu M , December (2019) Combined Horizontal Parallel Apriori Algorithm and Adaptive Frequent Pattern Growth Algorithm for Big Data Mining. International Journal of Innovative Technology and Exploring Engineering (IJITEE) Volume-9, Issue-2S2, ISSN: 2278-3075.

4. Sornalakshmi M, Balamurali S, Venkatesulu M (2018) TAR-IMF: Temporal Association Rule Mining and Improved Algorithm for Mining Frequent Elements. International Journal of Pure and Applied Mathematics Volume 119 No. 17, 1953-1970 , ISSN: 1314-3395.

International Journal :

1. Journal Published "Entitled of Two Step Share Visual Cryptography Algorithm for Secure Visual Sharing" in IJRITCC Journal , Volume 2, Issue 3, March 2014.

2. AN ENERGY AWARE HEART DISEASE PREDICTION SYSTEM USING ESMO AND OPTIMAL DEEP LEARNING MODEL FOR HEALTHCARE MONITORING IN IOT is published on 19.12.2025 in Journal of Biomolecular Structure & Dynamics.

3. Powered Face Recognition Attendance System A Novel Approach to Automated Prediction published on IEEE conference of Proceedings of the Second International Conference on Automation, Computing and Renewable Systems (ICACRS-2023) IEEE Xplore Part Number: CFP23CB5-ART; ISBN: 979-8-3503-4023-5

4. Two Step Share Visual Cryptography Algorithm for Secure Visual Sharing published on International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 2 Issue: 3 656 – 660.

5. Patent Intellectual property of India, Controller General of Patents, Designs & Trade Marks CP-2, Sector V, Salt Lake City, Kolkata-

700091,Tel No. 091)(033) 23671945-46 Fax No. 033 23671988 E-mail: kolkata-patent@nic.in,Web Site: www.ipindia.gov.in

6. Vision towards emerging Trends in communication and Networking Technologies 2023 IEEE conference on   Record 5811 2]nd   IEEE International conference on VIT.

7. LIFI Technology based Automatic Vehicle speed controller   published in 2022 11 th International Conference in System modeling   and advnced (SMART)
    i. **DOI:** 10.1109/SMART55829.2022.10046768

8. Development of Automated Tool for Driver Drowsiness published in 2023 7th International conference on Intelligent Computing DOI: 10.1109/ICICCS56967.2023.10142633.

9. Speed Limit Signboard Recognition and Audio Alert for Driver using CNN published in 2023 7th International Conference in   Trends in Electronics and Information.

10. RealTime object Detection and Tracking using Deep learning and Open CV   published in 2018 international conference on Inventive Research in computing Applications(ICRCA)**DOI:** 10.1109/ICIRCA.2018.8597266.

11. Enhanced Skin lesion Diagnosis using a Deep Learning Technique Published in
    2024 8th International Conference on Electronics, Communication and Aerospace Technology (ICECA) ; 953-958,
    https://doi.org/10.1109/ICECA63461.2024.10800817.

12. Arduino Based Smart Trash Can - A solution for Efficient waste Management, published in 2024 IEEE International conference on Blockchain and Distributed Systems Security(ICBDS) DOI:10.1109/ICBDS61829.2024.10837441.

13. Enhanced Speech Emotion Recognition based on Convolution Neural Networks using MLP Classifier and KNN published in SEEJPHVolume XXV S1, 2024, ISSN: 2197-5248;Posted:05-11-2024.

14. Cultivating Success using CNN-Powered Precision Farming published in 2024 8th International Conference on Electronics, Communication and

AerospaceTechnology(ICECA)
DOI: 10.1109/ICECA63461.2024.10801039

Patent

1. Blockchain Based Electronics Health Recording Device Set Design No : 397237-001

2. Cyber security Detection and Alerting Device , Design No: 430979-001

Book Publications

1. TITLE: DATA MINING AND DATA WAREHOUSING

Publisher:CHARULATHA YEAR: DECEMBER 2022

2. TITLE : DATA STRUCTURES CONCEPTS

Publisher CHARULATHA YEAR : 2021

Conference ,Workshop, Seminar , FDP program Details

International Conferences:

1.   Presented a Paper titled Multi Agent Based Density Estimation Technique for Assoiciation Rule Generation Using Semantic Ontology in the "International Conference on Contemporary Engineering and Technology" held on 24 th and 25th March 2017.

2.   Presented a paper titled Wireless Sensor Network find out Errors in data detection using Association Rules in the International Conference on Problems & prospects of E-Commerce held on 25 & 26 July 2014.

3.   Participated International National Conference on "Advanced in Computer Science Engineering and Technology" conducted by Dept of Computer Science and IT ,KARE, Krishnankoil held on 20.01.2018.

4.   Participated International National Conference on "Applied Soft Computing Techniques" Conducted by Dept of Computer Application , KARE, Krishnankoil held on 24.03.2018

5.   Presented International Global Conference on "A Combined Horizontal Parallel Apriori Algorithm and Adaptive Frequent Pattern Growth Algorithm for Data Mining" conducted by Dept of Computer Application , KARE, Krishnankoil held on 20.12.2019

National Conference :

1. Participated National Conference on Data and Knowledge Engineering " MineWare' 12 conducted by N.P.R Arts and Science College held on 28th January 2012.

2. Participated National Conference on Cryptography , Authentication & MatLab Applications Conducted by Sri Nagalakshmi Ammal College of Sciences held on March 17 th ,2012.

3. Presented a paper Entitled of " Association Rule Mining Processing " in the National Conference on "Advanced Research Techniques in Information Technology held on November 2014.

International level Seminar:

1. Participated International level Seminar on "Network Platform" Conducted on HCLCDC Purasaiwalkam Chennai, held on 18.3.2015

2. Participated International level Seminar on "Research Metholody" Conducted by Information Technology, KARE,krishnankoil held on 10.02.2016.

3. Participated International level Seminar on "E-HACK" Conducted by InfySEC Demystifying Innovations, Department of Computer Science Engineering at KARE, krishnankoil held on 12.2.2016.

4. Participated International level Seminar on "Advanced Teaching Metholologies" Conducted by Department of Computer Science Engineering at KARE, krishnankoil held on 10.03.2017.

5. Participated International level Seminar on "E-Wallet" conducted by Department of Computer Science Rapalayamj Rajus College, Rajapalayam Held on 28.9.2018

Faculty Development Programming:

- Participated online FDP on "Artificial Intelligence & Machine Learning for Ecology Conservation" Conducted   by Institute of Science & technology for Research Constituent college of CVM University at Gujarat ON 02.05.2020.

- Participated online FDP on Application of Geoinformatics in Multi discipline conducted by Institute of Science & technology for Research Constituent college of **CVM University** at **Gujarat**.on 09.05.2020.

- Participated Three days(12.5.2020-14.5.2020) online FDP on "Microsoft Azure" Organized by the Department of Computer Application, conducted by**Kalasalingam Academy of Research and Education** , Krishnankoil on 12.05.2020 to 14.05.2020

- Participated in the online FDP on "Artificial Intelligence" Conducted by Department of ComputerScience, **G.T.N Arts College, Dindigul on 13.05.2020**

- Participated Online FDP Four days(14.5.2020 to 18.05.2020) **International Faculty Development Programme on Current Technologies in IT Industries organized by Department of Computer Science , NGM College Pollachi.**

- Participated online FDP two days (14.5.2020 to 15.5.2020) on "Software project Management using Artificial Intelligence" organized by Department of Computer science at **American College , Madurai**

- Participated in the online FDP on "Arts of writing Scientific Reports" organized by **Velammal Engineering College affiliated to Anna university , Chennai on 15.05.2020**

- Participated online FDP on "Innovative Strategies in Everyday Class Room Teaching and Learning of concept organized by **Bharathiar University Arts and Science College, Pollachi on 16.05.2020.**

- Participated online FDP of "Cyber security" organized by **Vivekandha Arts and Science college,Madurai on 20.05.2020.**

- .Participated online 'An FDP on '**Applications of Signal Processing in IOT**' conducted by Department of Electronics Engineering, **Prathyusha Engineering College,Chennai on 21.05.2020**

- Participated FDP on " (India,Japan) AI based proctoring in next generation   education "organised by org **SSS Shasun Jain College for Women, Chennai on   23.05.2020**
- Participated 7 days (25.05.2020 to 31.05.2020) online "Faculty development Programme on * PYTHON 3*" organized by prakasam Engineering college on 28.05.2020

- Participated in the seven days(27.05.2020 to 02.06.2020) online " National level FDP programme on" Methods suitable for a Pandemic situation organized by Nallamuthu Gounder Mahalingam college , Erode.

- Participated online FDP on(05.06.2020 to 10.06.2020) 5 days "Machine Learning and Data Science for Engineering Applications" organized by Shadan college of Engineering & technology – CSE & IT., Hyderabad.

- .Participated online FDP programme on "Challenges for college Teachers in the new Educational Scenario" organized by Mary Matha College of Arts and Science on 06.06.2020.

- Participated online Five days(06.06.2020 to 10.06.2020) FDP programme on "MOODLE learning Management system " organized by Mannar Thirumalai Naicker College, Madura on 07.06.2020.

- Participated online Five days (08.06.2020 to 12.0602020) FDP   programme on Introduction to ARDUINO" organized by " Sri kaleeswari College , Sivakasi. On 08.06.2020

Webinar :

- Participated webinar series on "Emerging Global careers in the IT Industry" Conducted by Alpha College of Engineering at Chennai. On 10.05.2020.

- Participated in the Webinar on " Modern Teaching Techniques" organized by **Dr. Zakir Husian College , Ilaiyangudi, Sivagangai**on 17.05.2020.

- Participated in the International Level webinar on "Technology Trends of 2020" organized by Rajapalayam Raju's college on 10.06.2020.

- Participated Two days (11.06.2020 to 12.06.2020) online webinar series on Data Science " Enterprise Search bringing data at one stop for retrieval. Organized by Panimalar Engineering College , Chennai

- Participated online webinar on (post COVID Trends on Empolyment opportunities organized by Kalasalingam Academy of Research and Education on 22.05.2020.
- Participated webinar on "Natural language Processing" Organized by Panimalar Engineering College , Chennai. On 17.06.2020

- Participated online Webinar on" The Risks of Artificial Intelligence of A Security Perspective". organized by St. Joseph's Institute of technology, Chennai on 12.06.2020.

- .Participated in the online Webinar on Emerging Trends of SAP in ERP system organized by Mookambigai College of Engineering Maduraion on 13.06.2020

- Participated in the online National Webinar on " Enhancing and Enabling Women Empowerment" organized by Rajapalayam Raju's College, Rajapalayam on 14.06.2020

- Participated in the online Webinar on "Recent Trends in Digital Image Processing" organized by Sri Krishnasamy Arts and Science College on 16.06.2020.

- Participated One Day International online Webinar on Blockchain Network in IOT Applications" organized by Ayya Nadar Janaki Ammal College, Sivakasi on 04.05.2020.

- Participated online webinar on" Resilience and Anxiety" organized by Ayya Nadar Janaki Ammal college , Sivakasi. On 02.06.2020

- Participated online Webinar on " The Elephant Catchers" organized by GTN ARTS COLLEGE, Dindigul. On 03.05.2020 .

- Participated Online webinar Research & Post Doctoral fellowship opportumities in foreign universities organized by SriRam Institute of Managent studies , Tambaram Chennai on 29.05.2020

- .Participated on One day International level FDP programme on " Tools and Technique for online Remote Teaching " organized by Bharathiyar University Arts and Science college , Pollachi on 30.05.2020

- Participated online FDP of "National Level Webinar on IOT technology &IT's Application " organized by SLS.MAVMM Ayiravaisasyar college , Madurai. On 27.05.2020

Workshop

- Participated on online 5 days (26.05.2020 to 30.05.2020) National Workshop on Research Methodology by IndiraGandhi National Tribal University Amarkantak madhya Pradesh on 26.05.2020

Project details:

M.Phil Thesis:

Title : Intranet application using Human Resources Management System with concept of Data Mining and Data warehouse

M.Sc MAIN PROJECT:

Title : Online Educational System.

Company Name : Palpap Software International Ltd, Chennai.

Software : ASP, JAVA Script, HTML.

Mini Project:

Title : SALES ORDER SYSTEM.

Software : VB, MS-Access.

Subjects Handled

- Operating System
- Programming in C
- Java Programming
- Introduction to IBM PC
- Fundamentals of Computer

- Digital Principles and Applications
- Object Oriented Programming in C++
- RDBMS
- Computer Organization
- Microprocessor and Interfacing

- PC Software for Windows
- Visual Basic Programming
- VB.net

- Principles of Information System
- Computer Network
- Web Programming & Technology
- Introduction to Information Technology
- Software Engineering
- Linux Programming
- Office Automation
- Business Application Programming
- Multimedia
- System Software

PG DEGREE COURSES
- Datamining and warehousing
- Data Mining With WEKA and R Lab
- Cloud computing
- Digital image processing lab Using matlab
- Artificial intelligence & Machine learning

(FOR UG & PG DEGREE COURSES)

Responsibilities In Academic

- Working as a position of Assistant Professor for the past 15 years

- Lab In-Charge in our college Computer Lab

- Convener of the Examination for Monthly Test as well as Madurai Kamaraj University Examination

- Convener of the Convocation Function

- In-charge of Training and Placement Cell for one year

- In-charge of Cultural Committee for one year

- Convener of Association Programme to conduct various programme

- Achieved the 100% result in MKU Exam

- Convener of Internal Exam
- Produced MKU Rank for the past 10 years

➢ Initiated the students to participate in competitions at nearby Colleges.

✧ **Recently Doing Naan Mudhalvan SPOC work in entire College from 2022 onwards (5 SEM Handled)**

PERSONAL PROFILE:

Sex	: Female
Marital Status	: Single,
Languages known	: Tamil, English
Permanent Address	: No-201A West Street, Vanniampatty,
	Vaithialingapuram(PO),Srivilliputtur(TK),
	Virudhunagar (DT), Tamil Nadu
	PIN-626154

DECLARATION

      I hereby declare that the above information are true and correct to the best of my knowledge and belief.

Date : 29.05.2025

Place: Srivilliputtur

Signature