

**Dr. T. Malathi** M.Sc., (S.S), M. Phil., M.E., (CSE), UGC-NET, Ph.D.

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## Work Experience

17 Years

- ✦ Proficient in applying new methods and activities to learning / Teaching Methodology.
- ✦ Profound knowledge in theory & practical subjects.
- ✦ Interested in understanding conceptual knowledge.
- ✦ Extensive experience in organizing conferences and seminars.
- ✦ Ability to develop learning skills in students.
- ✦ Active participation in committee and extra-curricular activities.

## About Me



## Education

### Ph.D., Computer Science

Mar 2024

Shrimati Indira Gandhi College  
Bharathidasan university  
Tiruchirappalli

**Research Topic: A Novel Approach for Weather Forecasting by using Big Data Analytics and Machine Learning Techniques**

### UGC- NET - Computer Science

Nov 2020

### M.E., Computer Science and Engineering

May 2014

Gnanamani College of Engineering  
Anna University  
Namakkal

'A' Grade

### M.Phil., Computer Science

May 2007

Periyar University, Salem

78%

### M.Sc., Software Science (5 years Integrated Course)

May 2005

Vivekananda College of Arts and Science for Women,  
Periyar University, Namakkal

82%



## Experience

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**Lecturer** (June 1<sup>st</sup> 2007 to March 31<sup>st</sup> 2008)

**Chidambaram Pillai College for Women**

Tiruchirappalli, Tamil Nadu.

**Assistant Professor** (June 2008 - Current)

**Shrimati Indira Gandhi College**

(Nationally Accredited at 'A' Grade (3<sup>rd</sup> Cycle) by NAAC)

Tiruchirappalli, Tamil Nadu.



## Skills

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- Aptitude and Attitude Skill Trainer
- Team oriented
- Good Communication Skills
- Good Interpersonal Skills
- Quick Adaptation to New Technology



## Technical Skills

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### Operating System

- Mac OS
- Linux
- Windows 10

### Web Components

- CSS 3
- HTML 5

### Database

- MySQL, Oracle

### Software

- Photoshop, Flash
- C, C++, J2EE
- MS Office



## Specialized Papers

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- Communication Networks
- Big Data Analytics
- Mobile Computing
- Distributed Technology
- Data Base Systems
- Data Mining
- Programming Languages, C, C++, Core Java
- Data Structures and Algorithms
- Operating Systems
- Digital Electronics
- Software Engineering
- Web Technology



## Career Highlights

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- **Placement Officer (June 2011 - Dec 2021)**
- **Member of IQAC for Placement (June 2011 - Dec 2021)**
- **IT Team Lead (Sep 2020 - Dec 2022)**
  - Received Exemplary Contribution award as an IT Team Lead towards conducting One Hundred Webinars from the Management as on 26.06.2021.
- **Branding Team Lead (Sep 2020 - Till date)**
  - Received appreciation certificate for Excellent Contribution and Dedication in the promotion activities of admissions for the Academic Year 2021-2022.
- **Member of Enable Trust**



## Personal Interest

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- Calligraphy
- Counseling
- Reading and Writing Articles
- Listening Music



## Academic Responsibilities

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- Tutorship for B.Sc., Comp. Science, M.Sc., Comp. Science, BCA.,
- Year In-charge of BCA 2019 batch.
- Provide individual instruction to keep all students at expected skill level
- Meeting parents to discuss wards progress.



## Publications

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1. **“Data Base and Data Warehouse – An Overview”** International Journal of Advanced Multidisciplinary Research and case and Practices, Mc Stem Eduversity, USA, USA e-ISSN: 2994-3981, Volume 1, Issue 1, Oct 2023
2. **“Importance of Feature Engineering Techniques for Weather Prediction Model”**, CLIO Annual Interdisciplinary Journal of History, Volume – 06 issue – April 2020
3. **“Comparison of Classification Techniques in Rainfall Prediction using Machine Learning”**, Alochana Chakra Journal, Volume IX, Issue IV, April/2020, pp. 3450- 3455. (Indexing: Old Care A Group Journal).
4. **“Feature Selection Techniques for Weather Prediction Model”**, Journal of the Maharaja Sayajirao University of Baroda (Print Journal), Volume-54, No.2 (VI) 2020, 178-183. (Indexing: Care A Group Journal).
5. **“An Ant Colony – Information Gain Based Feature Selection Method for Enhancing the Weather Prediction”**, Annals of the Romanian Society for Cell Biology (Multidisciplinary), 25(2), 3838–3850, Indexing: **Scopus, Care B Group**.
6. **“Feature Selection Techniques for Weather Forecasting Models using Machine Learning Techniques”**, International Journal of Electrical Engineering and Technology (IJEET), Volume 11, Issue 4, June 2020, pp. 443-455.
7. **“Weather Forecasting with Optimization Based Neural Network Classification”**, **Webology**,

8. **“Web Ontology Language – Business Process Customization for Composite Web Services”**, International Journal of Scientific research and management (IJSRM), Volume 2, Issue 5, Page -796 to 801, 2014.



## Conference

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1. **“Importance of Feature Engineering Techniques for Weather Prediction Model”** has presented the 5th ONE day International Conference on Information Technology, Entrepreneurship, Humanities and Sustainable Value chain in a challenging Environment(ieh-2020) held on 24th feb,2020 at Dubai.
2. **Presented** a paper entitled **“Artificial Neural Network based Daily Weather Prediction using back propagation technique”** in the 2nd IEEE ICECA 2018 at Coimbatore, TN
3. Submitted a paper **“Framework for evaluating the classification techniques with proposed hybrid selection method for weather prediction”** One Day International Conference on “Challenge & Response of Organization During Turbulent Global Business Environment” held 4th June 2019 at Lifelong learning Academy, 10 Arumugam Road, #07-02LTC, Singapore 409957.
4. Presented **“Deriving Hidden Affinity Finder Relationship on Twitter Utilizing based on knowledge-based techniques”** in the international conference on **“Digital India the unfolding opportunities and challenges”** conducted by Vivekanandha Institution of Information and Management Studies and Mother Teresa Women’s University held on March 02-03,2017.
5. Presented **“Resource Description Framework Schema in Web Ontology Language base Business Process Dynamic Customization for Composite Web Service”** in the international conference on **“Computational Intelligence and Big Data Analytics”** conducted by Vivekanandha Institution of Information and Management Studies and Mother Teresa Women’s University held on March 06-07,2015.



## Seminar, Webinar & Workshop

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1. Completed the NEP 2020 orientation & Sensitization programme under **Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)**, organized by UGC-MMTTC, Bharathidasan University from 19.02.2024 to 28.02.2024
  2. Attended online certification of **“Web of Science Certification Series”** E shodh Sindhu on 15<sup>th</sup> July 2020
  3. Attended five days certification program on **“Digital Teaching Techniques”** conducted by ICT Academy on 24<sup>th</sup> oct 2020 to 29<sup>th</sup> oct 2020
  4. Attended online Ten Days Skill Training Programme on **“Web Design Course for Entrepreneurship - Phase -1”** conducted by Bharathiyar University, Coimbatore on 19<sup>th</sup> oct 2020 to 31<sup>st</sup> oct 2020
  5. Participated in the International Seminar on **“Big Data Analytics and Applications”** organized by the Department of Computer Science & Department of Mathematics, Mother Teresa Women’s University on 25<sup>th</sup> Nov 2019
  6. Participated in the DST sponsored International Workshop on **“Machine Learning Techniques”** organized by Department of Computer Science, Mother Teresa Women’s University on 3<sup>rd</sup> & 4<sup>th</sup> Sep 2019
  7. Participated in the International Workshop on **“Cloud Computing and Virtualization”** organized by Shri Sakthikailash Women’s College held on 24<sup>th</sup> Aug 2018
  8. Participated in the National level Workshop on **“Robotics IOT with Cloud Server”** organized by the department of Computer Applications on Aug 4<sup>th</sup> 2018
  9. Participated in the Two days International Workshop on **“Image Restoration Techniques with Matlab”** organized by the PG and Research Department of Computer Science on 2<sup>nd</sup> & 3<sup>rd</sup> Sep 2016
- **Number of webinars attended during Lockdown period: 56**
  - **Number of FDP attended during Lockdown period: 10**



## Patent

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1. An Advanced System to Authenticate the Person Based of Finger Vein Matching Technique to Facilitate Safer Financial Transactions
2. IOT Enabled chemical mixing device for Agriculture Farm – Design No: 398669-001, Dated: 28-10-2023



## Research ID

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- Google Scholar Id: <https://scholar.google.com/citations?user=OqWDRjUAAAAJ&hl=en&authuser=1>
- Web of Science Id: KOC-4364-2024
- Orchid Id : <https://orcid.org/0000-0002-2709-2094>
- Vidwan Id : <https://vidwan.inflibnet.ac.in/profile/371452>



## Personal Details

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<b>Father's Name</b> :	Mr. M. Thangavel	<b>Mother's Name</b> :	Mrs. V. Santha
<b>Spouse</b> :	Mr. E. Prakash	<b>Nationality</b> :	Indian
<b>Date of Birth</b> :	July 20, 1983	<b>Address</b> :	32-A/11 Cauvery Park West Chindhamani Tiruchirappalli -620002 Tamil Nadu
<b>Gender</b> :	Female		

## Declaration

I, T. Malathi, hereby declare that the information here is true and correct to the best of my knowledge.

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**Malathi. T**