# NITHYA S

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## OBJECTIVE

    **Awaiting for an exciting carrier in your venerated concern whereby dedication and determination towards work allotted to me. I would like to play a key role in the upliftment of the Organizations.**

## EDUCATION

**Ph.D.  |  Gandhigram Rural Institute (Deemed to be University), Gandhigram**      *July 2019 – July 2023*
Dissertation : Cardiovascular Disease Prediction using Deep Learning
Marks          : Pursuing.

**M.Phil.,  |  M.K.University Evening College, Dindigul**      *July 2010 - May 2011*
Thesis          : Detection of Abnormal Masses in Digital Mammograms using Homogeneous
                 Blocks based segmentation.
Marks          : 74% (First Class)

**M.Sc., (CS & IT)  |  G.T.N Arts College , Dindigul.**      *June 2007 - Apr 2009*
Project          : Godcasting : *Online Audio Video Streaming.*
Marks          : 83% (First Class with Distinction)

**B.Sc., IT | Pannaikadu Veerammal Paramasivam College, Dindigul.**      *June 2001 – Apr 2004*
Project          : Order and Dispatch System: *Stock Maintenance.*
Marks          : 71% (First Class)

**H.Sc. | Sentosa Chettinad Vidyalaya Matriculation Hr. Sec. School, Dindigul.**      *Apr 2001*
Marks          : 72%

**S.S.L.C. |  Seventh Day Adventist Matriculation Hr. Sec. School, Dindigul.**      *Apr 1999*
Marks          : 71.45%

## AREAS OF INTEREST

- **Deep Learning.**
- **Machine Learning.**
- **Compression.**

## PUBLICATIONS

**"DeepCompNet: A Novel Neural Net Model Compression Architecture"**
Computational Intelligence and Neuroscience, 2022 (IF: 3.633).

**"ECG Classification Using Machine Learning Classifiers with Optimal Feature Selection Methods"**
Evolutionary Computing and Mobile Sustainable Networks (pp. 277-289). Springer, Singapore (2022).

**"Deep Learning Model for Arrhythmia Classification with 2D Convolutional Neural Network"**
Information and Communication Technologies (pp. 1-11). Springer, Singapore (2023).

**"Stacked Variational Autoencoder in the Classification of Cardiac Arrhythmia using ECG Signals with 2D-ECG Images"**
IEEE Xplore (2022).

**"XACML: Explainable Arrhythmia Classification Model Using Machine Learning"**
International Advanced Computing Conference (pp. 219-231). Cham: Springer Nature Switzerland. (2022)

**"A Review on Detection of Malignant Breast Tumours using Deep Learning"**
Our Heritage (UGC – Care Listed Journal).

**"Implementation of Data Mining Tools for Heart Disease Classification"**
Artificial Intelligence and its Multidisciplinary Stances, 2022, ISBN : 978-93-920-632-06.

**"ECG Classification of Cardiovascular Arrhythmia using Deep Learning Techniques: A Review"**
International Conference on Recent Trends And Advances In Communication Technology and Data Science, 2022, ISBN : 978-93-91077-60-0.

**"Segmentation and Transformation of 1D-ECG Beats for Effective Arrhythmia Classification"**
International Conference on Advanced Computing Technologies for Innovative Solutions, 2023.

**"Prediction of Risk In Maternal Health"**
International Conference on Advanced Computing Technologies for Innovative Solutions, 2023.

## INTERNATIONAL CONFERENCE

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|---|---|
| **International Conference on Opinion Mining for Big Data Analysis | Dindigul.** | *14th Aug 2014* |
| **International Conference on Evolutionary Computing and Mobile Sustainable Networks | Bangalore.** | *18th & 19th Sep 2021* |
| **International Conference on Innovations in Information and Communication Technologies | Thailand.** | *15th & 16th April 2022* |
| **International Conference on Intelligent Innovations in Engineering and Technology | Coimbatore.** | *22th - 24th Sep 2022* |
| **International Conference on Recent Trends And Advances In Communication Technology and Data Science | Madurai** | *14th Oct 2022* |
| **International Advanced Computing Conference | Telugana.** | *15th & 16th Dec 2022* |
| **International Conference on Advanced Computing Technologies for Innovative Solutions | Gandhigram** | *16th & 17th March 2023* |

## TEACHING EXPERIENCE

**Assistant Professor | 7 years**                                  *May 2012 – July 2019*

St.Antony's College of Arts and Sciences for Women, Dindigul

**Assistant Professor | 2 years**                                  *May 2009 – May 2011*

G.T.N Arts College, Dindigul

## CORE COMPETENCIES

- Discipline-Specific Conceptual Knowledge.
- Research Skill Development.
- Communication Skills.
- Professionalism.
- Leadership and Management Skills.
- Strategic Management
- Project Management
- Teamwork

## TRAINING PROGRAMME

A Five Days Training on "Image Processing using MATLAB", *Pantech Prolabs India Pvt Ltd, Chennai.*                                           *12$^{th}$ - 16$^{th}$ Apr 2021*

A One Month Internship on "MATLAB", *Pantech Prolabs India Pvt Ltd, Chennai.*            *15$^{th}$ - 15$^{th}$ May 2021*

A Five Days Training on "Image Processing using MATLAB", *Pantech Prolabs India Pvt Ltd, Chennai.*                                           *12$^{th}$ - 16$^{th}$ Apr 2021*

A Five Days Training on "Master Class on Deep Learning", *Pantech Prolabs India Pvt Ltd, Chennai.*                                           *24$^{th}$ - 28$^{th}$ May 2021*

A One Training on "Being Independent in Academic Writing", *PharmaState Academy.*        *14$^{th}$ Aug 2021*

Faculty Development Programme in Entrepreneurship organized by *Mother Teresa Women's University, Kodaikanal*                                  *17$^{th}$ - 21$^{st}$ Sep 2013*

## WORKSHOP ATTENDED

.                                                                                                           *4$^{th}$*

- One Day National Level Workshop on "Art of Writing Research Paper and Publishing in High Reputed Journals" catalysed and Suppported by Tamilnadu State Council for Science and Technology, Chennai, *G.T.N. Arts College(AUTONOMOUS), Dindigul.*     *4$^{th}$ Nov 2019*
- International Workshop on Mathematical Modelling and Scientific Computing, organized by the Department of Mathematics, *The Gandhigram Rural Institure (Deemed to be University), Dindigul.*                                           *4$^{th}$ & 5$^{th}$ Sep 2019*
- Two Days Workshop on "Graphic Designing" jointly with Innovativz Institute of Media Studies, Dindigul, *St.Antony's College of Arts and Sciences for Women, Dindigul.*     *10$^{th}$ & 11$^{th}$ Jan 2019*

- National Workshop on "Data Analytics using R Tool", *.M.V.Muthiah Government Art College for Women", Dindigul.* — *9th Mar 2018*
- Two Days State Level Workshop on "Android Application Development", *St.Antony's College of Arts and Sciences for Women, Dindigul.* — *18th & 19th Feb 2016*
- Two Days State Level Workshop on "CODE yourself with Python", *St.Antony's College of Arts and Sciences for Women, Dindigul.* — *24th & 25th Mar 2017*
- Hand-on Workshop on "Deep Learning in various Research Domains", *MEPCO Schlenk Engineering College, Sivakasi (An Autonomous Institution).* — *14th - 15th Feb 2022*
- A One Week Workshop on "Aritificial Intelligence and its Multidisciplinary Stances", *The Gandhigram Rural Institute (Deemed to be University), Dindigul.* — *22nd - 27th Mar 2021*
- A Three Days Workshop on "Aritificial Intelligence and its Multidisciplinary Stances", *The Gandhigram Rural Institute (Deemed to be University), Dindigul.* — *23rd - 25th Mar 2022*

## WEBINARS ATTENDED

- "Image Processing Applications", *AIMIT St.Aloysius College (Autonomous), Mangalore.* — *3rd July 2022*
- "Natural Language Processing ", *Siddhartha Institue of Technology & Sciences.* — *7th July 2022*
- "Computer Vision Application Design ", *ATRIA Institute of Technology, Bengaluru.* — *14th July 2020*
- "AI Thinking Applications in Industrial Perspectives", *Manakula Vinayagar Institute of Technology, Puducherry.* — *7th Aug 2020*
- "Deep Learning based Neural Networks Systems", *Manakula Vinayagar Institute of Technology, Puducherry.* — *12th Aug 2020*
- "Machine Learning", *Kongunadu College of Engineering and Technology, (Autonomous), Erode.* — *15th Aug 2020*
- "Image Processing using MATLAB", *Malla Reddy Engineering College, Hyderabad.* — *16th Aug 2020*
- "Cloud Computing", *SoT, GITAM (Deemed to be University), Hyderabad.* — *19th Aug 2020*
- "Medical Image Processing", *Bio Medical Engineering, GKM College of Engineering and Technology, Chennai.* — *21st Aug 2020*
- "Tensor Flow for Deep Learning Applications", *St.Xavier's Catholic College of Engineering, Nagercoil.* — *4th Sep 2020*
- "Impact on IOT by Implementing Edge Computing", *Christu Jyothi Institute of Technology and Science, Jangaon.* — *20th Sep 2020*
- "Transformers Neural Network", *Edureka.* — *21st Aug 2021*
- "A Deep Dive into Deep Learning Modeling", *Mathworks.* — *3rd Aug 2021*
- "Big Data & Internet of Things Applications", *School of Engineering & Applied Sciences Rai University, Ahmedabad, Gujarat..* — *22nd June 2021*
- "3D Computer Vision", *ACM & ICC IIT Kottayam, Kerela.* — *12th Feb 2022*

## CURRENTLY

**Pursuing Ph.D. (Full-Time) in Department of Computer Science and Applications, The Gandhigram Rural Institute (Deemed to be University), Dindigul, Tamil Nadu.**

## PROGRAMMING SKILLS

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|---|---|
| **Python** | **C** |
| **MATLAB** | **C++** |
| **JAVA** | **PHP** |

## CERTIFICATION

IBM Data Science – Coursera.

Deep Learning – NPTEL.

Practical Machine Learning with Tensorflow –NPTEL –Jointly offered by Google and IIT Madras.

IBM - Exploratory Data Analysis for Machine Learning – Coursera.

## CONTACT

**LINKEDIN ID**

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## DECLARATION

I hereby declare that the above-mentioned information is true to the best of my knowledge.

S.NITHYA