




**DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND  
MANAGEMENT**

(UDAYA PURA, KANAKA PURA ROAD, BANGALORE-82)

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

<b>Faculty Name</b>	<b>Dr. Priya Nandihal</b>	
<b>Designation</b>	<b>Associate Professor</b>	
<b>Educational Qualification</b>	<b>BE, M.E, Ph.D</b>	
<b>Experience in Years</b>	<b>14</b>	
<b>Areas of Interest</b>	<b>Digital Image Processing Computer Network Artificial Intelligence</b>	
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**Educational Details**

- 2022:** **Ph.D** in Computer Science & Engineering  
Area of Research: Digital Image Processing  
VTU, Belgaum.
- 2012:** **M.Tech** (First Class with Distinction) in Computer Network & Engineering  
VTU, Belgaum
- 2005:** **B.E** (First Class) in Computer Science and Engineering, B.V.Boomaraddi  
College of Engineering VTU, Belgaum

**Personal Details**

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**Home Town:** Dharwad

Languages Known : English, Kannada, Hindi

## Professional Experience

- **Dayanand Sagar Academy of Technology & Management (DSATM)** serving from October 2022 to till date – Department of CS&D
- **Dayanand Sagar Academy of Technology & Management, Bengaluru** served from 2014 to October 2019. Department of ISE
- **CITM, Bangalore** Served for 2 years from 2008 to 2010. Positions held: Assistant Professor – Department of CS&E
- **Opt Integrated Solutions, Hyderabad**, Served for 8 months as Software Engineer.

## Publications

1. **Priya Nandihal, BhaskaraRao** “*2D Key Exchange Scheme Using Morphological Dilation*” article at International Journal of Computer Science Engineering and Technology in March 2012, Vol 2, Issue 3, pp 953-957.
2. **Priya Nandihal, BhaskaraRao** “*Diffie-Hellman Type 2D Key Exchange Scheme Using 2D Convolution*” article at International Journal of Computer Science Engineering and Technology in May 2012, Vol 2, Issue 5, pp1216-1219.
3. **Priya Nandihal, Vandana S.Bhat, Jagadeesh D. Pujari**, “*Markov Random Field Based Model in Spatial Domain for Denoising of Microarray Images*”, International Journal of Computer Sciences and Engineering, Vol.6, Issue.9, pp.324-328, 2018.
4. **Priya Nandihal, Vandana S.Bhat, Jagadeesh D. Pujari**, “*Applications of FFDNET for Denoising on Microarray Images*”, International Journal of Recent Technology and Engineering, Vol.8, Issue.3, pp.2691-2694, 2019. (**Scopus Indexed**).
5. **Priya Nandihal, Vandana S.Bhat, Jagadeesh D. Pujari**, “*Image Noise Type Identification in Microarray Images Using CNN-INC*”, International Journal of Advanced Trends in Computer Science And Engineering, ISSN 2278-3091, Vol. 9, Issue 4 , pp. 6279-6288, August, 2020.(**Scopus Indexed**).
6. **Priya Nandihal, Vandana S.Bhat, Jagadeesh D. Pujari**, “*Determination of Noise Type in Microarray Images Using Deep Learning Parameters Generated in a Denoising Scheme Using Markov Random Field*”, *Image and Vision Computing Journal* [Communicated]

(Scopus Indexed).

7. **Priya Nandihal, Piyush Pareek, “A novel method for circle fitting of boundaries of microarray spots to detect malformation of DNA sequences microarray spots of healthy and unhealthy tissues “**, *Image and Vision Computing Journal* [Communicated] (Scopus Indexed).

### **Conference Publications**

1. Priya Nandihal, Manjunath SS, “*A Study on Denoising Techniques of Microarray Images*”, ICSIPCA 2017.(GrenzePublications).
2. Priya Nandihal, Manjunath SS, Lalitha Rangarajan “*Heuristic approach to automatically Signal from Background in DNA Microarray images*” CCIP 2017 (SPRINGER).
3. Priya Nandihal, Vandana S, Jagadeesh Pujari, “*Adaptive Min Max Thresholds Algorithm of Microarray Image Denoising Based on Nonsampled Contourlet Transform*” ICRTT 2018.

### **Book Publications**

1. **Title:** Recommendation Based Interaction  
**Publisher:** Lambert Publication, Germany  
**ISBN-978-613-9-45933-9.**
2. **Title:** Microarray Image Denoising  
**Publisher:** Lambert Publication, Germany  
**ISBN-978-620-4-75211-2**

### **Indian Patent Publication**

1. **Title:** A System and a method for selection of the higher education course using artificial Intelligence.  
**Application number:** 202141036913  
**Status/Year:** Published/2021
2. **Name Of Article:** Face Mask  
**Design Number:** 349964-001  
**Status:** Inforce (up to 22/9/2031)

**3. Name Of Article:** Portable Solar Power Battery  
**Application Number:** 352798-001  
**Status:** Inforce (up to 8/11/2031)

**4. Title:** Crop Growth Monitoring System  
**Application number:** 202241027766  
**Status/Year:** Published/2022

### Academic Activities

#### Proposals submitted:

1. Proposal written for 15 lakhs (Fifteen Lakhs only) under the **VGST K-FIST 2022** scheme in the year 2022 – Decision awaited
2. Proposal written for 5 Lakhs for KRISHIK Agri entrepreneurship in the year 2020
3. Proposal written to KSCST under STI interventions in the INDIA on “DEVELOPMENT OF CUSTOM 5G WIRELESS PROTOCOL FOR DATA DRIVEN DECISION MAKING IN SMART CITY SENSOR ECO SYSTEM” for 5 lakhs- 2022 – Decision awaited.

### Faculty Development Activity/Workshops

1. “ADVANCES IN DIGITAL IMAGE PROCESSING” IN PSIT 2011.
2. “DIGITIZATION AND ITS IMPACT” COGNIZANT, B’LORE IN 2016.
3. “ADCOM 2017” IN IIIT-B,2017
4. “ADVANCES IN DEEP LEARNING FOR MULTIMEDIA SIGNAL PROCESSING”, March 2022

### Contact Details

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