


# Manju R A

Lecturer  
National Institute of Speech and Hearing (NISH)  
University of Kerala, India  


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## EDUCATION

<b>M.Tech in Computer Science with Specialization in Digital Image Computing</b> CGPA: 9.4/10.0 Dissertation: <i>An Ensemble Deep Learning Model for Detecting Intracranial Hemorrhage on CT Scans</i> Institute: Department of Computer Science, University of Kerala, India	Oct. 2021
<b>M.Sc. Computer Science</b> CGPA: 9.0/10.0 Dissertation: <i>Improved Method for Enhancing Dark Images using CLAHE and Morphological Reconstruction</i> Institute: Department of Computer Science, University of Kerala, India	June 2019
<b>B.Sc. Computer Science</b> CCPA: 8.1/10.0 Institute: Emmanuel College, Vazhichal, Thiruvananthapuram University of Kerala, India	Apr. 2017

## PROFESSIONAL EXPERIENCE

<b>Project Associate</b> <i>Department of Data Science and Engineering</i> Indian Institute of Science Education and Research (IISER), Bhopal, India	Nov. 2023 - Present
<b>Lecturer in Computer Science</b> National Institute of Speech and Hearing (NISH), University of Kerala, India	Dec. 2021 - Nov. 2023
<b>Machine Learning Intern.</b> <i>Information Extraction and Automation Using Machine Learning</i> Polus Software Pvt. Ltd, Kerala, India	Dec. 2018 - May 2019

## ACHIEVEMENTS & AWARDS

<b>Best M.Tech. Dissertation</b> Title: <i>An Ensemble Deep Learning Model for Detecting Intracranial Hemorrhage on CT Scans</i> Department of Computer Science, University of Kerala, India	2021
<b>II Rank for M.Tech. in Computer Science with Specialization in Digital Image Computing</b> Department of Computer Science, University of Kerala, India	2021
<b>II Rank for M.Sc. Computer Science</b> Department of Computer Science, University of Kerala, India	2019

## RESEARCH PUBLICATIONS

<b>Improved Method for Enhancing Dark Images based on CLAHE and Morphological Reconstruction</b> Manju R.A., Koshy G. and Philomina Simon <i>International Conference on Recent Trends in Advanced Computing (ICRTAC), 2019</i>
<b>Wavelet based Contrast Enhancement using BBHE and QDHE in Satellite Images</b> Manju R.A. and Nikhil Jayakumar <i>International Conference on Artificial Intelligence and Society (ICAIS), 2021</i>

## Wood Texture Classification using GLCM and LBP

Misaj Sharafudeen, Manju R.A. and Philomina Simon

National Conference on Smart Systems and Technologies (NCSST), 2021

### PROFESSIONAL DEVELOPMENT

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#### Machine Learning using Python

June 19, 2023

Organized by Department of Computer Science, University of Kerala, India

#### AI for Medical Diagnosis

Feb. 12, 2023

Organized by DeepLearning.AI and Coursera

#### Introduction to Programming with MATLAB

Aug. 9, 2020

Organized by Vanderbilt University, US

### RESEARCH INTERESTS

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Medical Image Analysis, Digital Image Processing, Computer Vision, Machine Learning, Deep Learning

### TECHNICAL SKILLS

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**Programming:** Python, MATLAB, R, C, C++

**Libraries:** NumPy, SciPy, Scikit-Image, OpenCV, Tensorflow, Keras

**IDE:** Spyder, Jupyter

**Tools:**  $\text{\LaTeX}$ , Office

**Languages:** *Fluent* in English and Malayalam, *Conversant* in Hindi and Indian Sign Language (ISL)

### RESPONSIBILITIES

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#### Class Coordinator

2021 - Present

Class coordinator of the second-year B.Sc. Computer Science (HI) students at the  
*National Institute of Speech and Hearing (NISH), University of Kerala, India*

#### Programme Coordinator

2021 - Present

Coordinate and conduct various conferences, seminars, and workshops at the  
*National Institute of Speech and Hearing (NISH), University of Kerala, India*

#### Executive Committee Member

2018 - 2019

Computer Science Students Association (COSSA)

*Department of Computer Science, University of Kerala, India*

### REFERENCES

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#### Ms. Philomina Simon

*Dissertation Adviser*

Assistant Professor

Department of Computer Science

University of Kerala

Trivandrum - 695581, Kerala, India

E-mail: [philomina.simon3@gmail.com](mailto:philomina.simon3@gmail.com)

**Dr. D. Muhammad Noorul Mubarak**

Associate Professor and Head

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*Institute Head*