

# 5-Days Workshop Programme on Workshop on Biomedical Applications using Deep Learning Techniques

Sponsored by ANRF,  
DST, Govt. of India

(Hybrid Mode)



Organized by  
Department of Computer  
Science & Engineering  
NIT Silchar  
Silchar, Assam



June 05 - 09, 2026

## Organizing Committee

### CHIEF PATRON

Prof. Dilip Kumar Baidya Director,  
NIT Silchar

### PATRON

Dr. Samir Kumar Borgohain  
HOD, Associate Professor, Department of Computer  
Science & Engineering, NIT Silchar

### CONVENERS

Dr. Pinki Roy  
Associate Professor, Department of Computer Science  
& Engineering, NIT Silchar

## Resource Persons

Medical Professionals and Eminent experts from  
reputed universities, IITs, NITs, globally recognized  
industries will share their knowledge and expertise  
in line with the theme of the Workshop.



**Dr. Piyal Nag DNB**  
EBIR Senior Consultant  
Interventional  
Radiologist  
Head of the Department  
Department of Radiology  
Silchar Cancer Centre



**Dr. Prahlada Rao**  
Professor, CSE  
Department, NIT Manipur



**Dr. Ferdous Ahmed  
Barbhuiya**  
Professor, CSE  
Department, IIT Guwahati



**Dr. Arijit Sur**  
Professor, CSE  
Department, IIT Guwahati



**Dr. Sudipta Roy**  
Professor, CSE  
Department, Assam  
University



**Dr. Debasmita Das**  
Consultant  
Oncopathologist at Silchar  
Cancer Centre-ACCF.



**Dr. Susmita Ghosh**  
Professor, CSE  
Department, Jadavpur  
University

## About NIT Silchar & the Department

**National Institute of Technology, Silchar is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College in Assam.**

The Department of Computer Science and Engineering at NIT Silchar offers B.Tech., M.Tech., and Ph.D. programmes with a strong emphasis on research and innovation in emerging areas of computing. The Ph.D. programme focuses on advanced research in Artificial Intelligence, Machine Learning, Biomedical Applications, Data Science, Cyber Security, and High-Performance Computing. The department is equipped with modern computational facilities and promotes interdisciplinary research collaborations to address real-world scientific and technological challenges

## About the Workshop

This workshop aims to provide a comprehensive platform for academic and professional interaction in the emerging field of Artificial Intelligence (AI) for Biomedical Applications. The workshop will focus on recent advancements in deep learning, medical image analysis, and explainable AI techniques for improving in the field of biomedical applications. Eminent experts from academia, healthcare, medical professionals and research organizations will deliver expert lectures and practical sessions covering ultrasound imaging, data preprocessing, segmentation, classification models, and clinical integration of AI-based systems with various Biomedical applications. The workshop is designed to enhance research knowledge, promote interdisciplinary collaboration and provide hands-on exposure to modern AI-driven medical imaging techniques. The workshop is sponsored by Anusadan National Research Foundation (ANRF), DST, Govt. of India.

## Objectives of the Workshop

- To provide participants with fundamental and advanced knowledge of Biomedical applications and AI-based diagnostic techniques.**
- To introduce modern deep learning architectures and image processing methods for various Biomedical applications.**
- To promote interdisciplinary research collaboration and hands-on learning in AI-driven medical imaging applications.**

## Theme

- Breast Ultrasound Imaging and BI-RADS Analysis.
- Deep Learning Techniques for Medical Image Classification.
- Lesion Segmentation using U-Net and Advanced AI Models.
- Explainable AI (XAI) for Breast Cancer Diagnosis.
- Clinical Applications and AI-driven Diagnostic Systems.
- Image Preprocessing, Enhancement and Data Augmentation.
- Health care technology using quantum Computing

- Hands-on training using public biomedical datasets and AI-based CNN/Transfer Learning models for medical image analysis.

*Participants may attend the Workshop offline or through online mode using the Google Meet link that shall be shared through email during confirmation of registration.*

*Registration fees:-Rs.200 for UG/PG/PhD students Rs.500 for Faculty/Person from Industry.*

Participant Category	Registration fees
UG/PG/PhD students	200.00 Rs.
Faculty & Industry Person	500.00 Rs.

**Eligibility:** Faculties, Scientists, Practicing Engineer, Research Scholars and PG students.

**E-certificate will be provided to all the participants of the Workshop**



## Registration

### Link for registration:

<https://forms.gle/LY2ZPxzqM9h4nWbd6>

Participants are requested to pay a registration fee of INR 500/INR 200 using SBI collect prior to registration

### Steps for payment are as follows

1. <https://onlinesbi.sbi.bank.in/sbicollect/>
2. Select “Educational Institutes” in categories
3. Search “ONLINE FEE COLLECTIONACCOUNT NIT SILCHAR”
4. Select “Workshop on Biomedical Applications using Deep learning” from the dropdown.
5. Fill the personal details and proceed with the payment of INR 500/INR 200 as per eligibility.

**Last Date for Registration: 4<sup>th</sup> June, 2026**

## Organizing Institute – NIT Silchar

NIT Silchar, Silchar-788010

Website: [www.nits.ac.in](http://www.nits.ac.in)

Contact No.: + 9191016 71744

## Contact

**Dr. PINKI ROY**

Associate professor  
Department of Computer Science & Engineering

NIT SILCHAR,  
SILCHAR-788010

PH:- (+91) 91016 71744 / 8402083089 / 9863085520

EMAIL: [pinki@cse.nits.ac.in](mailto:pinki@cse.nits.ac.in) / [bijita24\\_rs@cse.nits.ac.in](mailto:bijita24_rs@cse.nits.ac.in)

