

# HANDS-ON TRAINING ML-DRIVEN BIOACTIVITY PREDICTION: FROM DATA TO DISCOVERY

MASTER THE CUTTING-EDGE TECHNIQUES OF MACHINE  
LEARNING FOR PHARMACEUTICAL AND BIOMEDICAL RESEARCH

online



## Course Overview

Gain practical experience applying machine learning to predict the biological activity of chemical compounds for modern drug discovery.

## Topics Covered

- ▶ Foundations of Bioactivity Prediction & Machine Learning
- ▶ Chemical Databases & Molecular Descriptor Generation
- ▶ Core ML Algorithms for Bioactivity Prediction
- ▶ Building & Evaluating Predictive Models
- ▶ ML-Driven Virtual Screening of Bioactive Compounds
- ▶ Molecular Docking Essentials
- ▶ In-Silico Toxicity Prediction
- ▶ Real-World Case Studies

## Who Should Attend

- Pharmaceutical researchers and scientists
- Computational chemists and bioinformaticians
- Drug discovery professionals
- Graduate students in chemistry, biology, or related fields
- Data scientists interested in pharmaceutical applications

## Program Benefits

-  Certificates on Successful Completion
-  Access to Live Sessions Recordings
-  Online Technical Support Post Workshop.

## Course Instructors

- Dr. Ajitha Antony -  
Bioinformatics Trainer, CBIRT
- Dr. Tamanna Anwar -  
Organizer & Founder, CBIRT

 18 MAY TO 1 JUNE 2026

 Time: 6:00 - 7:00 PM (IST)

 Duration: 2 Weeks  
Mon. - Fri.

 Deadline: 17 May 2026

## Tools

   
Google Colab / Jupyter Notebook

 

Python  
 

AutoDock Vina  


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Visit: [www.cbirt.net/training](http://www.cbirt.net/training)

# HANDS-ON TRAINING

## ML-DRIVEN BIOACTIVITY PREDICTION: AI

### FROM DATA TO DISCOVERY

MASTER THE CUTTING-EDGE TECHNIQUES OF MACHINE LEARNING FOR PHARMACEUTICAL AND BIOMEDICAL RESEARCH



### Training Registration

To register for the workshop, please submit the registration form. We accept multiple payment methods to ensure a convenient and secure registration process.



### Registration Fee



**STUDENTS**  
 UPTO MASTERS      PH.D  
 INR-2250      INR-2500



**POSTDOC/RESEARCH SCHOLARS**  
 INR-2750



**STAFF/FACULTY**  
 INR-3000



**INDUSTRY PROFESSIONALS**  
 INR-3500



#### INTERNATIONAL PARTICIPANTS

*(Including all Living, Working, or Studying Abroad at the time of the Workshop).*

STUDENTS	PH.D	POSTDOC/ RESEARCH SCHOLARS	STAFF/FACULTY	INDUSTRY PROFESSIONALS
UPTO MASTERS				
USD 45	USD 50	USD 55	USD 60	USD 65