

**Indian Institute of Information Technology
Ranchi, Jharkhand, India**



**Announces
Workshop on**

**Mental Health Prediction using Artificial
Intelligence and Biomedical Signal
Analysis**

(11th and 12th May, 2022)

On the occasion of

National Technology Day

Organized by

**Indian Institute of Information Technology,
Ranchi-834010, Jharkhand, India**

www.iiitranchi.ac.in

Patron

Prof. Vishnu Priye

Director, IIIT Ranchi

Convener

Dr. Jayadeep Pati, Asst. Prof., CSE, IIIT Ranchi

Coordinator

Dr. Shalini Mahato, Faculty, CSE, IIIT Ranchi

About IIIT Ranchi

Indian Institute of Information Technology (IIIT) Ranchi is an Institute of National Importance under the act of Parliament of India established in 2016. IIIT Ranchi is part of Government of India initiative to setup 20 new Indian Institutes of Information Technology (IIITs) on a Public Private Partnership Model, established in 2016. The major objective was to set up a model of education which can produce best- in-class human resources in IT and harnessing the multidimensional facets of information technology in various domains. IIIT Ranchi is committed to academic excellence and good governance.

The Institute is currently offering B. Tech (Hons.) degree in Computer Science and Engineering (CSE) and Electronics and Communication Engineering (ECE) as well as B.Tech CSE with specialization in Data Science and Artificial Intelligence and B.Tech ECE with specialization in Embedded Systems and IoT. The institute also offers M.Tech in Data Science and Artificial Intelligence and M.Tech in Embedded Systems and IoT as well as Ph.D programs.

About the Workshop

Presently mental health is an important issue which negatively impacts millions of people's life globally. Analysis of biomedical signal with the help of Artificial Intelligence, Machine Learning and Deep Learning could help in accurate diagnosis of mental health. The workshop is aimed at imparting knowledge and training on the fundamentals and advancements of Biomedical Signal Processing, Artificial Intelligence, Machine Learning and Deep Learning as well as application of the same in Mental Health Prediction.

Expert lectures will be delivered by renowned faculty members from academia and industry personnel from across the world. The workshop would be beneficial to faculty members, research scholars, PG and UG students who intend to pursue research in the field of Biomedical Signal Processing and analysis of data using Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DL) in the area of Mental Health.

At the end of the program, the participants should be able to gain knowledge in following topics:

- Basic understanding of different types of mental health issues
- Issues related to correct diagnosis of Mental Health
- How to analyze Biomedical Signal
- Understanding and application of Artificial Intelligence, Machine Learning and Deep Learning
- How to apply Artificial Intelligence, Machine Learning and Deep Learning on biomedical signals for correct diagnosis of mental health
- How to formulate problems into Machine Learning and Deep Learning framework.
- Apply the concepts and practical knowledge in analysis, design and development of Machine Learning and Deep Learning using biomedical signals
- Practical session using MATLAB and EEGLAB for analysis of Biomedical Signals

Speakers

- **Dr. Arnaud Delorme**, Professor at Paul Sabatier University, Toulouse, France, and at the University of California, San Diego
- **Dr. Abdulhamit Subasi**, Professor, Faculty of Medicine, University of Turku, Finland
- **Prof. Vishnu Priye**, Director, IIIT, Ranchi, India
- **Dr. Nishant Goyal**, Associate Professor of

Psychiatry, Central Institute of Psychiatry,
Kanke, Ranchi, India

- **Dr. Rabindra Kumar Pradhan**, Associate Professor, Indian Institute of Technology (IIT), Kharagpur, India
- **Dr. Shalini Mahato**, Faculty, CSE, IIIT Ranchi, India.

Who can Participate

Students, Industry personnel, Research Scholars and Faculty members of UGC/ AICTE/ MHRD recognized Institutes, Universities and Engineering colleges all over India and abroad.

Organizing Committee

- **Dr. Santosh Kumar Mahto**, Asst. Prof., ECE, IIIT Ranchi
- **Dr. Bharat Singh**, Asst. Prof., CSE, IIIT Ranchi
- **Dr. Rashmi Panda**, Asst. Prof., ECE, IIIT Ranchi
- **Dr. Dhananjoy Bhakta**, Asst.Prof., CSE, IIIT Ranchi
- **Dr. Kirti Kumari**, Asst. Prof., CSE, IIIT Ranchi
- **Dr. Nidhi Kushwaha**, Asst. Prof., CSE, IIIT Ranchi
- **Dr. Priyabrat Garanayak**, Faculty, ECE,IIIT Ranchi
- **Dr. Shahid Shadab Hassan**, Faculty, Humanities, IIIT Ranchi
- **Mr. M.S.Champia**, Deputy Registrar, Finance & Account, IIIT Ranchi

Registration Fee

- For Participation in Online mode INR 10,000/-
 - For Participation in Offline mode INR 16,000/-
- The fees in Offline mode include Workshop Kit, food and accommodation for 2 days.

Note: The workshop is in Hybrid mode in which Participant can opt for either online or offline mode.

Venue

Auditorium, IIIT Ranchi, Smart City
JUPMI Building, 3rd Floor, Plant Plaza Road,
Dhurwa, Ranchi, Jharkhand – 834004, India

Last date for registration: 10th May, 2022

Total number of Seats: **30**
(on First cum first serve basis)

10 seats in offline mode and **20 seats** in online mode

Bank Details for Registration Fee Payment

Bank Name: **SBI Namkum**
Name: **IIIT Ranchi**
Account Number: **35551469248**
IFSC Code: **SBIN0009011**

Registration Process

- Registration can be done through the attached brochure or by following the link mentioned below.

<https://forms.gle/D5S21Vg8YcSeang39>

- Total number of seats is 30. Selection will be made purely on First-Come-First-Serve basis (Subject to fulfilling the eligibility criteria)

Contact Person

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Registration Form

Workshop On

**Mental Health Prediction using Artificial
Intelligence and Biomedical Signal Analysis**
(11th and 12th May, 2022)

Name

(In block letters)

Designation

Organization

Academic Qualification

Area/ Specialization

Address of Correspondence

.....

Contact No.

E-mail

WhatsApp Number.....

Payment Details:

Payment Mode:.....

Online Payment Reference number:.....

Date of Payment:.....

Mode for attending the Workshop: Online/Offline

Date

Signature of Applicant

Click the following link for online registration:
<https://forms.gle/D5S21Vg8YcSeang39>