

3-Day Workshop on Machine Learning and Data Analytics

*Department of Computer Science and Engineering,
Jadavpur University*

Name of the Workshop: 3-Day Workshop on Machine Learning and Data Analytics

Date of Workshop : 26th - 28th , March 2019 (Tuesday, Wednesday, Thursday)

Coordinators :

1. Dr. Sarbani Roy
2. Dr. Chandreyee Chowdhury
3. Dr. Sudip Kumar Naskar
4. Dr. Chintan Kumar Mandal

Advisory Committee:

1. Prof. Anupam Sinha
2. Prof. Atal Chaudhuri
3. Prof. Debotosh Bhattacharjee
4. Prof. Diganta Saha
5. Prof. Jamuna Kanta Sing
6. Prof. Kamal Sarkar
7. Prof. Mita Nasipuri
8. Prof. Sarmistha Neogy
9. Prof. Sivaji Bandyopadhyay
10. Prof. Subhadip Basu
11. Prof. Susmita Ghosh
12. Prof. Ujjwal Maulik
13. Dr. Chitrita Chaudhuri
14. Dr. Anasua Sarkar
15. Dr. Dipankar Das
16. Dr. Nibaran Das
17. Mr Mridul Sankar Barik

Objective :

- Motivate researchers to work in the areas of machine learning and data analytics
- Bring academicians, researchers, industry practitioners and students to discuss the concepts of machine learning and its applications in various domains.

Duration : 3 days

Venue: K. P. Basu Memorial Hall

Target Audience:

Final year and pre final year UG students, PG students, research scholars, faculty members and Industry people

Registration Fee (Including 18% GST):

1. Industry : Rs 2500
2. Academics/ Faculty : Rs 1500
3. Research Fellow : Rs 600
4. Undergraduate(Final Year)/Post Graduate Student : Rs 350

Session Plan

Day 1:

1. 10:00 am to 10:30 am (30 mins) :- Registration
2. 10:30 am to 11:00 am (30 mins) :- Inauguration
3. 11:00 am to 11:15 pm (15 mins) :- High Tea
4. 11:15 pm to 1:15 pm (2 Hrs) :- Technical Session 1 (Introduction to Machine Learning: supervised, unsupervised, feature representation, training data and test data representation, regression, classification using logistic regression, gradient descent search, model evaluation) : **Dr Partha Pratim Roy (IIT, Roorkee)**
5. 1:15 pm to 2:00 pm (45 mins) :- Lunch
6. 2:00 pm to 3:30 pm (1 hr) :- Technical Session 2 (Machine Learning Algorithms 1: Artificial Neural Networks, training MLP, over fitting, regularization) : **Prof Rajat De (ISI, Kolkata)**
7. 3:30 pm to 3:45 pm (15 mins) :- Tea
8. 3:45 pm to 5:15 pm (1:30 Hrs) :- Technical Session 3 (Machine Learning Algorithms 1I: Support Vector Machine – Theory and Applications) : **Dr Asif Iqbal (IIT, Patna)**

Day 2:

1. 10:00 am to 12:00 am (2 Hrs) :- Technical Session 4 (Foundations of Deep Learning : Shallow Vs. Deep Neural Networks, training deep Neural Networks, gradient vanishing and explosion problem, Auto-encoder, pre-training, dropout, adam optimization) : **Prof Debdoot Sheet (IIT Kgp)**
2. 12:00 am to 12:15 pm (15 mins) : -High Tea
3. 12:15 pm to 1:15 pm (1:00 Hrs) :- Technical Session 4 contd.
4. 1:15 pm to 2:00 pm (45 mins) : - Lunch
5. 2:00 pm to 3:30 pm (1:30 Hrs) : - Technical Session 5 (Sequence Learning using recurrent networks and LSTM) : **Dr. Pawan Goyal (IIT Kgp)**
6. 3:30 pm to 3:45pm (15 mins) : - Tea
7. 3:45 pm to 5:45 pm (2 Hrs) : - Technical Session 6 (Big data analysis using Machine Learning) : **Prof S Bhattacharya (IIT Kgp)**

Day 3:

8. 10:00 am to 11:30 am (1:30 Hrs) :- Technical Session 7 (Automatic feature learning and Convolutional Neural Networks (CNN)) : **Prof Utpal Garain (ISI, Kolkata)**
9. 11:30 am to 11:45 am :- Tea
10. 11:45 am to 1:15 am (1:30 hrs) :- Technical Session 8 (Data clustering and applications) : **Dr Sriparna Saha (IIT Patna)**
11. 1:15 pm to 2:00 pm (45 mins) : - Lunch

12. 2:00 pm to 3:30 pm (1:30 Hrs) :- Technical Session 9 (Machine Learning for Natural Language Processing) : **Dr Asif Iqbal (IIT Patna)**
13. 3:30 pm to 3:45 pm (15 mins) : - Tea Break
14. 3:45 pm to 5:15 pm (1:30 Hrs) : - Technical Session 10 (Bayesian Learning) : **Dr. Adway Mitra (IIT Bhubaneshwar)**
15. 5:15 pm to 5:45 pm (30 mins) : - Valedictory