

# An Online Workshop

on

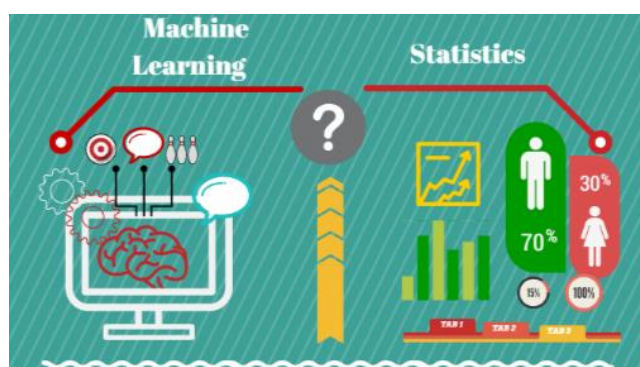
## Statistics for Machine Learning with R (SMLR)

03-06 July, 2023

With the support of

Bioinformatics Centre (BIC) (Funded by DBT, Govt. of India)

Indian Institute of Information Technology Allahabad



### Invited Speakers

Dr. Amiya Ranjan Bhowmick  
ICT, Mumbai

Dr. Amit Kumar Misra  
BBAU, Lucknow

Dr. Mahaveer Singh Panwar  
BHU, Varanasi

Dr. Rashmi Bundel  
University of Rajasthan, Jaipur

### Key Features of the Workshop

- Comparison of Machine Learning Methods with Statistical Methods
- Logistic Regression v/s Random Forest
- Ridge and Lasso Regression
- Elastic Net
- Analysis of High Dimensional Data
- Feature Engineering using R Studio
- Dynamic Documentation using R Studio
- Mathematical Models for Biological Systems
- Solving Differential Equations Using R
- Fitting Differential Equations to Biological Data

The Department of Applied Sciences, Indian Institute of Information Technology Allahabad (IIIT-A) is going to organize an online workshop on Statistics for Machine Learning with R (SMLR) with the support of Bioinformatics Centre, IIITA.

### About the workshop

Machine learning is the need of the hour and statistical techniques have an integral role to play while studying machine learning techniques. The aim of this workshop is to facilitate the participants with a basic to advance course on Statistics for Machine Learning. Along with the theoretical background, hands-on with R is also planned for better understanding and execution. This workshop will be a platform where various statistical experts would interact with the participants to share their knowledge, expertise and hence would be beneficial for the participants.

### **Chief Patron**

Prof. Mukul Sharad Sutaone, Director, IIIT  
Allahabad

### **Chairperson**

Prof. Pritish Varadwaj, Department of Applied  
Sciences, IIIT Allahabad

### **Coordinator**

Dr. Savitri Joshi

### **Organizing Committee**

Dr. Anand Kumar Tiwari, IIIT Allahabad  
Dr. Sumit Kumar Upadhyay, IIIT Allahabad  
Dr. Seema Kushwaha, IIIT Allahabad  
Dr. Saurabh Verma, IIIT Allahabad

### **Student Committee**

Ms. Vasudha Upadhyay

### **Who Can Apply?**

PG students and research scholars who have  
knowledge of Statistics and Machine Learning  
will be preferred.

### **About the Institute and the Department of Applied Sciences**

IIIT-A was established in 1999, as a center of  
excellence in Information Technology and allied  
areas. It was declared as an institute of national  
importance by the act of parliament in 2014. The  
Institute has been conceived with the objective  
of developing professional expertise and skilled  
manpower in IT and areas of allied research. The  
department of Applied Sciences offers M.Tech.  
programs in Bioinformatics, Data Science &  
Analytics. It has PhD programs in  
Bioinformatics & Biomedical Engineering,  
Mathematics and Physics. The department also  
offers Mathematics and Physics courses for  
B.Tech. students of other departments of the  
institute.

### **About BIC**

The Bioinformatics Centre (BIC) at IIIT  
Allahabad has been setup with the support of the  
Department of Biotechnology (DBT), Ministry  
of Science & Technology to create a state-of-art  
facility for big data analytics of large-scale  
genomics and proteomics data.

### **REGISTRATION FEES (Fee once paid is non-refundable)**

- Students INR 400/-+18% GST
- Faculty Members INR 800/-+18% GST
- Industry Personnel INR 1000/-+18% GST

### **Registration Link**

<https://apply.iiita.ac.in/event/register/>

Last date for registration: June 30, 2023.

However, the registration may be pre-closed if the required number of registrations is done before the  
deadline.

For more details, visit the webpage <http://smlr.iiita.ac.in/>.

### **Contact**

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