



Workshop on Machine Learning

10- 12 April 2019

Organized by

Indian Women Scientists' Association (IWSA)

SECOND CIRCULAR

IWSA, an NGO established in 1973 with eleven branches in the country, carries out variety of science based activities for societal wellbeing and development of scientific acumen. We reach out by means of popular science lectures, conferences, refresher courses and hands on training workshops (www.iwsa.net) to remain updated with fast moving science and discoveries. Professional competence, career based experiences and dedication to work for fulfilment of IWSA's mandates are the driving force for our members. In the fast pace of developments in fields of computation based methods for engineering, biology or technology, workshop based learning has helped students who are genuinely seeking knowledge of modern day. The **present workshop on `MACHINE LEARNING` has been designed for students pursuing engineering, computer science and others who have aptitude for computer applications in their respective subjects. This will be conducted at IWSA, Vashi, Navi Mumbai during April 10-12, 2019.**

The fascinating world of artificial intelligence and machine learning has steadily penetrated our everyday life. Deep learning is a key technology behind traffic predictions, online shopping, digital assistants, driverless cars, voice control in consumer devices, face recognition, cancer diagnosis, environment protection, agriculture and so on. Deep learning models can achieve state-of-the-art accuracy, sometimes exceeding human-level performance. The workshop will be conducted by experts from premier research institute.

Students will develop a basic understanding of the building blocks of deep learning at this workshop. This will help understand the main approaches to deep learning such as supervised learning, convolution neural network, recurrent neural network, reinforcement learning, and unsupervised learning. Students will be able to recognize problems that may be solved using deep learning and implement deep learning algorithms for hands-on experience using Keras. The minimum requirement of prior knowledge for any participant should be fluency in Python and NumPy. Basic knowledge of programming, numerical algebra, calculus and probability would be desirable. Participants must bring their laptop with following configuration Ubuntu 64 bit OS. Minimum 4GB RAM.

Total participants: 40

The course is open to 3rd& 4th year engineering, Computer Science students, MSc, Ph D and others, compliant to requested clause of prior knowledge of Python and NumPy. Applicants should fill in the form given below and mail it to [:iwsahq@gmail.com](mailto:iwsahq@gmail.com) by 23rd March 2019. Names of selected applicants will be displayed on IWSA website; www.iwsa.net. The organizers will select the participants based on their suitability for this course and this decision will be final.

Dr. Sunita Mahajan

Course Coordinator

Trustee, IWSA

Retired Principal,

Mumbai Educational Trust's Institute of Computer Science,

(Cell : 9820785072)

Address of the organizing centre:

Indian Women Scientists' Association

Plot 20, Sector 10 A, Near Balaji Temple

Dr. Mar Theophilus Marg

Vashi, Navi Mumbai, 400703

iwsahq@gmail.com; 022-27661806/ Cell: 9820785072

Fees: Rs. 5,900/- (including GST)

Mode of Payment: Cash/Cheque

Cheque should be drawn in the name of "IWSA Training Programme"

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Registration Form

Name: Mr/Ms -----

Department: -----Year

Institution: -----

Address: -----

Tel. / Mobile number: -----

E-mail: -----

Project Experience in if any: -----

Python

NumPy

Working knowledge of:

Numerical algebra

Calculus

Probability

Relevance of this workshop for your curriculum: (Write on the backside of form if you need more space)

Have you attended any refresher program/workshop/lecture series in the last six months or are you going to attend one in the next six months. If yes, give details.

Signature of applicant:

Signature of Head of Dept.

with stamp

Date-----

Date-----