

Sadashiv R. Puranik
Department of Mathematics
Date: 08/02/2022

To,
The Principal,
Tuljaram Chaturchand College of Arts, Science and Commerce,
Baramati.

Subject: Report of the workshop on Mathematics in Machine Learning.

Respected Sir,

We have organized six days online workshop on "Mathematics in Machine Learning" for B.Sc. and M.Sc (Mathematics) students' under the Entrepreneurship Development Cell of our college. The workshop was held from 31st January to 5th February 2022(09:00 AM to 11:00 AM). Seventy students and 5 teachers of the department of Mathematics participated in this workshop.

The resource person for the workshop was Mr. Hitesh Kapade. Senior Manager, MPS Interactive Systems. He started with the topic Introduction to Data Science and explained why it matters, what are the application of data science, what tools are used in it. The quiz and the assignment for the day were given to students. Then on the second day, he started with the introduction of Machine Learning. He discussed topics such as what are machine learning algorithms, supervised and unsupervised learning. He explained about machine learning project procedure. The topic for the third day was Basic Mathematics for Machine Learning. He explained about types of data, measures of central tendency, measures of variability. Then he showed how to use Excel in machine learning. On the fourth day, he discussed how Linear Algebra was used in the Google page rank algorithm. Calculus for machine learning and case study was taken on the fifth and last day of the workshop.

Every day students were given resources, quizzes, and assignments. The question and answers time was given to students. They interacted with the resource person and in their feedback, they told us about their satisfaction with the content and appreciated the importance of the workshop. I request you to take note of this activity.

Thank you very much for your guidance and support.

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Yours faithfully

S. Puranik

hitesh kapade is presenting

What data scientist do?

A data scientist needs to be somebody who knows how to find answers to novel problems.

The most basic of definitions would be that a data scientist is somebody who uses data to answer questions. But more importantly to you, what skills does a data scientist embody?

DOMAIN EXPERTISE

STATISTICAL RESEARCH

DATA PROCESSING

DATA SCIENCE

MATHEMATICS

COMPUTER SCIENCE

MACHINE LEARNING

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Science for the C-Suite. by Press, 2015. Print.

09:46 | Workshop on Mathematics in Machine Learning

19°C Haze 09:46 AM 31-01-2022

hitesh kapade is presenting

Applications of Integrals

ROC – Area under ROC

True positive rate (tpr)

False positive rate (fpr)

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Figure 4: ROC curve corresponding to the logistic model.

10:17 | Mathematics in Machine Learning Lecture 5

20°C Mostly sunny 10:17 AM 04-02-2022



Anekant Education Society's

Tuljaram Chaturchand College of Art's, Science and Commerce

Baramati-413102 (MS) India

(Autonomous)

Department of Mathematics

Organizes

Workshop on Mathematics in Machine Learning

31 January to 5 February 2022

Time: 09:00 AM to 11:00 AM

Resource Person

Mr. Hitesh Kapade

Senior Manager

MPS Interactive Systems

Registration Link: <https://forms.gle/fJvpmU1m5Laq72V77>

Join Telegram Group: <https://t.me/+kMvR8trrkR1lyjg1>

Prof. S. R. Puranik

Coordinator

Head, Department of Mathematics

Dr. V. C. Kakade

Chairman

Entrepreneurship Development Cell

Dr. C. V. Murumkar

Principal

Organizing Committee:

Prof. V. H. Shinde, Prof. P. B. Fulari, Prof. S. S. Jadhav, Prof. N. R. Shinde,

Prof. S. V. Kate, Prof. R. T. Kadam, Prof. V. S. Kshirsagar