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 theintroduction 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 howLinear 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

Department of Mathematics

Date:15 December 2021

To,

The Principal,

Tuljaram Chaturchand College, Baramati.

Subject: Application for workshop under ED Cell

Respected sir,

We want to conduct 1 week workshop for B.Sc. (Mathematics) students on the subject 'Mathematics in Machine Learning'. Details for this workshop are as follows.

Name of the Department: Department of Mathematics

Name of the Activity: Workshop on Mathematics in Machine Learning

Type of the Activity: Experimental Learning

Coordinator of the Activity: Puranik Sadashiv Ramkrushna

Experts for the Activity: Mr. Hitesh Kapade (Senior Manager, MPS Interactive Systems)

Class: F.Y.B.Sc., S.Y.B.Sc. and T.Y.B.Sc (Mathematics) students

Expected number of students: 60

Mode of the Activity: Online (Daily 2 Hours)

Duration of the Activity: 1 week (17 January to 22 January) **Expenses for the Activity**: 12,000/-(Expert Remuneration)

r the Activity: 12,000/-(Expert Remuneration)

3500/-(Local Hospility)

Machine learning is an attempt to construct automated machines using programming languages, data analysis, large scale computations and Mathematics. This workshop is going to concentrate on Mathematics part for Machine learning, because in computer science students learn programming, data analysis but Mathematics. I request you to give the permission for organization of the workshop under Entrepreneurship Development Cell activity.

Thank you.

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Olcher
18/1/2021

Yours faithfully Shunanin

Department of Mathematics

Workshop on 'Mathematics in Machine Learning' organized under ED Cell

(31st January-5th February 2022)

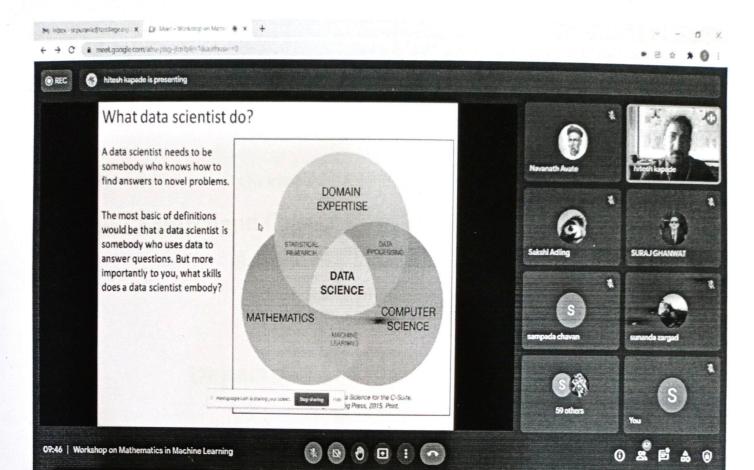
Expenses for the Workshop

Sr. No.	Name	Bank Name	Branch	IFSC code	Account No.	Amount
	L	Exper	t Remuneration	(for 6 days)		
1	Kapade Hitesh Ramesh	Axis Bank	S. B. Road, Pune	UTIB0000315	315010100160063	12,000/-
		Honora	rium +Certificat	e Distribution		
2	Sadashiv R. Puranik	Bank of Maharashtra	Baramati	MAHB0000073	60015113228	3500/-
		Honorarium=300	$00 (500 \times 6)$ and	Certificate Distrib	oution =500	
					Total	15,500/-

cordinata ED Cell

Head
Department of Mathematics





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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



(31 January to 5 February 2022)

Attendance: Monday, 31 January 2022

* Meeting code: ahu-pixg-jtm	1
Name of the Student	Name of the Student
1314 Shruti Jain	Rutuja Gaikwad
ADITYA DEOKAR	Rutuja Kangude
Abhijeet Gawade	Rutuja Kokare
Aditya Magar	Ruturaj Khandagale
Aishwarya Giranje	SANYOGITA SAPKAL
Aniket Bhand	SURAJ GHANWAT
Ankita Navale	Sadashiv Puranik
Ashwini jadhav	Sakina Lakdawala
Bharat Jambhulkar	Sakshi Adling
Chaitrali Takale	Sakshi Baride
Darshani Chavan	Samiksha Tupe
Dhanaraj Wanave	Saurabh Kondhalkar
Dhanashree Hole	Sharwari Markale
Dipti Salunkhe	Shivanjali Misal
Dnyaneshwari Darekar	Shraddha Kadale
Dnyaneshwari Jadhav	Shruti dhalpe
Dnyaneshwari Phadtare	Shubham Jadhav
Dnyaneshwari Rajebhosale	Shweta Nikam
GOKUL BHAND	Sneha Hivarkar
Ganesh Kendre	Snehal Magdum
Jayashri Ranaware	Sonali Kate
Jyoti Sinha	Srushti Pawar
Kajal Raut	Sujaan Mulani
Komal Nanavare	Sukanya Ghadage
Mayuri Suryavanshi	Vaibhav Ghongane
Megha Nalawade	Vaishnavi Lavate
Monali Madane	Vishakha Kshirsagar
Navanath Avate	akanksha agam
Nikita Babar	girish Jadhav
Nikita Shinde	hitesh kapade
Nikita Vyavahare	neha owal
Nisha Hole	pooja Parkale
Nutan Lavhe	pragati wable
Pragati Kadam	priyanka jadhav
Prajakta Darekar	rupali kadam
Pranali Jadhav	sai Rajebhosale
Prathmesh Hajbe	sampada chavan
Pratik Dhumal	shriraj saste
Pratiksha Jagdhane	sunanda zargad
Pratiksha Mhaske	utkarsha prabhune
Priyanka Gawali	
Rahul More	
Rushikesh Shinde	
Rushikesh Shinac	



(31 January to 5 February 2022)

Attendance: Tuesday, 01 February 2022

* Meeting code: vtf-bgmn	-kfi
Name of the student	Name of the student
Abhijeet Gawade	SANYOGITA SAPKAL
Aishwarya Giranje	SURAJ GHANWAT
Aniket Bhand	Sadashiv Puranik
Aniket Bondre	Sakshi Adling
Ankita Navale	Samiksha Tupe
Ashwini jadhav	Saurabh Kondhalkar
Bhakti Duche	Sharwari Markale
Bharat Jambhulkar	Shivanjali Misal
Chaitrali Takale	Shiwanjali Jadhav
Darshani Chavan	Shraddha Kadale
Dhanaraj Wanave	Shruti dhalpe
Dhanashree Hole	Shubham Jadhav
Dipti Salunkhe	Shweta Nikam
Dnyaneshwari Jadhav	Sneha Hivarkar
Dnyaneshwari Phadtare	Snehal Magdum
Dnyaneshwari Rajebhosale	Snehal Shinde
Jayashri Ranaware	Sonali Kate
Jyoti Sinha	Sujaan Mulani
Komal Nanavare	Sukanya Ghadage
Mayuri Suryavanshi	Swapnil Pansare
Megha Nalawade	Vaibhav Ghongane
Navanath Avate	Vaishnavi Lavate
Neha Chavare	Vishakha Kshirsagar
Nikita Babar	akanksha agam
Nikita Shinde	hitesh kapade neha owal
Nikita Vyavahare	
Nisha Hole	pragati wable pratik more
Nutan Lavhe	pratiksha shinde
Pragati Kadam	pratima bhapkar
Prajakta Darekar Prajwal Nimbalkar	priyanka jadhav
Pranali Jadhav	rupali kadam
	sai Rajebhosale
Prapti Mane Pratiksha Jagdhane	sampada chavan
Pratiksha Mhaske	sunanda zargad
	vrushali pawar
Pratima Bandgar	Washan pawa.
Priyanka Gawali	
Priyanka Kakade	
RESHMA JADHAV	
Rahul More	
Rupali Magade	
Rushikesh Shinde	
Rutuja Gaikwad	
Rutuja Kokare	



Workshop on Mathematics in Machine Learning (31 January to 5 February 2022)

Attendance: Wednesday ,02 February 2022

* Meeting code: fxn-eswt-ujc

Name of the student	Name of the student
ADITYA DEOKAR	Sharwari Markale
Abhijeet Gawade	Shivanjali Misal
Aniket Bhand	Shraddha Kadale
Ankita Navale	Sneha Hivarkar
Ashwini jadhav	Sonali Kate
Bhakti Duche	Srushti Pawar
Bharat Jambhulkar	Sujaan Mulani
Chaitrali Takale	Sukanya Ghadage
Darshani Chavan	Swapnil Pansare
Dhanaraj Wanave	Tejas Pawar
Dhanashree Hole	Vishakha Kshirsagar
Dipti Salunkhe	ashwini shedage
Dnyaneshwari Jadhav	hitesh kapade
Dnyaneshwari Rajebhosale	neha owal
Gulfishanaaz Shaikh	pooja Parkale
Jayashri Ranaware	pragati wable
Komal Nanavare	pratima bhapkar
Mayuri Suryavanshi	priyanka jadhav
NIKITA BABAR	sampada chavan
Navanath Avate	sunanda zargad
Neha Chavare	tasneem bagwan
Nikita Babar	utkarsha prabhune
Nikita Shinde	vanita malshikare
Nikita Vyavahare	vrushali pawar
Nutan Lavhe	
Pragati Kadam	
Prajakta Darekar	
Pranali Jadhav	
Pratiksha Mhaske	
Pratiksha More	
Pratima Bandgar	
Priyanka Gawali	
RESHMA JADHAV	
Rupali Magade	
Rushikesh Shinde	
Rutuja Kangude	
Rutuja Kokare	
SANYOGITA SAPKAL	
SURAJ GHANWAT	
Sadashiv Puranik	
Sakshi Adling	
Saurabh Kondhalkar	



Workshop on Mathematics in Machine Learning (31 January to 5 February 2022)

Attendance: Thursday, 03 February 2022

* Meeting code: mod	-qmoq-uby
Name of the student	Name of the student
ASHWINI WANAVE	Rutuja Bharane
Akash shinde	Rutuja Gaikwad
Aniket Bhand	Rutuja Kokare
Ankita Navale	Rutuja Suryavanshi
Apeksha Kale	SANYOGITA SAPKAL
Arti Dalvi	SURAJ GHANWAT
Ashwini jadhav	Sadashiv Puranik
Bhakti Duche	Sakshi Adling
Bharat Jambhulkar	Saurabh Kondhalkar
Chaitrali Takale	Shaila Jadhav
Darshani Chavan	Sharwari Markale
Datta Jadhav	Shivanjali Misal
Dhanaraj Wanave	Shraddha Kadale
Dhanashree Hole	Shruti Kikale
Dipti Salunkhe	Shubham Jadhav
Dnyaneshwari Jadhav	Sneha Hivarkar
Dnyaneshwari Rajebhosa	le Snehal Magdum
Gulfishanaaz Shaikh	Sonali Kate
Jayashri Ranaware	Sonali Shinde
Jaydeep Gadadare	Srushti Pawar
Komal Nanavare	Sujaan Mulani
Komal Sawant	Sukanya Ghadage
Mansi Sonawane	Susmita Kakade
Mayuri Suryavanshi	Swapnil Pansare
Monu Jagtap	Swati Deshmane
Navanath Avate	Trupti Kadam
Neha Chavare	Vinay Zende
Nikita Babar	Vishakha Kshirsagar
Nikita Shinde	akanksha agam
Nutan Lavhe	ashwini shedage
Omkar Gawali	bharati Sangale
Pragati Kadam	chandravijay tripathi
Pranali Jadhav	dattatray shewale
Pranali Rupanavar	harshada kutwal
Pratik Dhumal	hitesh kapade
Pratik Wagh	mayuri kale
Pratiksha Jagdhane	neha owal
Pratiksha Kurumkar	pragati wable
Pratiksha Mhaske	pratima bhapkar
Priyanka Gawali	priyanka jadhav
Rahul More	sampada chavan
Rohit Ghadge	saurabh Kokare
Rupali Jaypatre	sunanda zargad
Rupali Magade	
vrushali pawar	tasneem bagwan
sonon pawai	vanita malshikare



(31 January to 5 February 2022)

Attendance: Friday,04 February 2022

Attendance: Friday,04	and the contract of the contra
* Meeting code: vno	
Name of the student ASHWINI KOKARE	Name of the student Sharwari Markale
ASHWINI WANAVE	Shivanjali Misal
Amruta Sarak	Shraddha Kadale
Aniket Bhand	Shruti Kikale
Ankita Navale	Shruti dhalpe
Apeksha Kale	Shubham Jadhav
Arti Dalvi	Shubhangi Gujar
Ashwini jadhav	Sneha Yadav
Bhakti Duche	Snehal Magdum
Bharat Jambhulkar	Sonali Shinde
Chaitrali Takale	Srushti Pawar
Darshani Chavan	Sujaan Mulani
Dhanashree Hole	Sukanya Ghadage
Dipti Salunkhe	Swapnil Pansare
Ganesh Kendre	Swati Deshmane
Gulfishanaaz Shaikh	Vinay Zende
Jayashri Ranaware	Vishakha Kshirsagar
Jaydeep Gadadare	akanksha agam
Komal Nanavare	ashwini shedage
Komal Sawant	bharati Sangale
NIKITA DHAIGUDE	chandravijay tripathi
Navanath Avate	dattatray shewale
Nikita Babar	harshada kutwal
Nikita Shinde	hitesh kapade
Nikita Vyavahare	mayuri kale
Nutan Lavhe	neha owal
Omkar Gawali	pooja Parkale
Pooja Kokane	pragati wable
Pragati Kadam	pratima bhapkar
Pranali Jadhav	priyanka jadhav
Pratik Dhumal	sai Rajebhosale
Pratiksha Jagdhane	sampada chavan
Pratiksha Kurumkar	sunanda zargad
Pratiksha Mhaske	supriya pomane
Pratiksha More	vaishnavi Dalvi
Pratima Bandgar	vedpathak sonali
Priya Bhosale	vrushali pawar
Priyanka Gawali	
Rohit Ghadge	
Rutuja Gaikwad	
SANYOGITA SAPKAL	
SRUSHTI GHADAGE	
SURAJ GHANWAT	
Sadashiv Puranik	



(31 January to 5 February 2022)

Attendance: Saturday,05 February 2022

* Meeting code: ooi-fuwk-hdn Name of the student ASHWINI KOKARE ASHWINI WANAVE Aniket Bhand Ankita Navale Apeksha Kale Apeksha Kale Arti Dalvi Bharat Jambhulkar Chaitrali Takale Darshani Chavan Dhanashree Hole Dipti Salunkhe Gulfishanaaz Shaikh Jayashri Ranaware Jaydeep Gadadare Mayuri Suryavanshi NIKITA DHAIGUDE Navanath Avate Nikita Babar Nikita Shinde Nutan Lavhe Omkar Gawali Pratiksha Jagdhane Pratiksha Mhaske Pratiksha More Pratima Bandgar Priyanka Gawali SANYOGITA SAPKAL SRUSHTI GHADAGE SURAJ GHANWAT
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SURAI GHANWAT
Sadashiv Puranik
Sanskruti pawar
Sharwari Markale
Shivanjali Misal
Shiwanjali Jadhav
Shruti Kikale
Shubhangi Gujar
Sneha Yadav
Snehal Magdum
Srushti Pawar





College with excellence at par

TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati, 413102

(Autonomous Institute)

Anekant Education Society's

Dr. Chandrashekhar V. Murumkar

Life Time Achievement Awardee

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Religious Minority Institute

• ISO - 9001 - 2015 Certified

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• DST FIST 'O' Level

• DBT - Star College Scheme

NAAC Reaccredited 'A+', CGPA 3.55

Green Audit Certified

• UGC - CPE Status

• UGC - B. Voc. Programme

• Best College Awardee-SPPU • Best Principal Awardee-SPPU

Affiliated to Savitribai Phule Pune University (Formerly University of Pune) (Id No.PU/PN/ASC/016/1962) Univ. College Code No. 032, HSC Board Code No. 11.02.001(1976-77)

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To. Mr. Hitesh Kapade Senior Manager, MPS Interactive Systems

Subject: Letter of Appreciation.

Dear Sir,

Thank you very much for delivering an informative and thought-provoking training as a Resource Person for the 6 days' workshop on "Mathematics in Machine Learning" held during the period 31st January to 5 February 2022. It was a splendid presentation that exposed students to use Mathematics in technology and how one can choose a different and successful career by studying Mathematics with technology especially in the field of Machine Learning. All the students appreciated and benefited from these technical discussions in the workshop.

Looking forward to your cooperation for the promotion of professional education in the future as well.

Yours sincerely,

Head

Department of Mathematics

Dr. Vikas Kakade Chairman

ED Cell

Dr. Chandrashekhar Murumkar

Principal

