

Indira College of Engg. & Management (22-23)

HDFC Bank Payment Voucher

No. : 819

Dated : 1-Mar-2023

Particulars	Amount
Account : Faculty Development Programme Exp.	1,950.00
Through : HDFC Bank Ltd A/c No : 50200024798810	
On Account of : Being amount paid to Shwetkranti Taware for Three days Workshop on Machine Learing as details attached	
Bank Transaction Details: Cheque 303018557430 1-Mar-2023 1,950.00	
Amount (in words) : Indian Rupees One Thousand Nine Hundred Fifty Only	₹ 1,950.00

Receiver's Signature:


 Checked by

Authorised Signatory


 Verified by

PRE Budget-ApprovalDate - 11/21/2023

Title of the Activity: - Three days workshop on Machine Learning and applications using python.

Level: - College level / Dept. level ✓

Department / Section Computer Engg.Name of coordinator: - Ms Shwetkanti Tawar Staff ID :- 2197 Mob. No 9763858530Resource person & Affiliation (if any): - Bhaskaracharya Pratishthan, PuneActivity Scheduled date: - 8th feb to 10th Feb,2023 Time :- 9.00 am to 5.00 pm.

Note: *If HOD / Dean/ Coordinator has intimated this head under academic budget (at the start of AY) then only this will be considered approval.

*Following is the budgetary requirement for the scheduled event, kindly sanction/approve

Sr. No.	Details/Particulars	Estimated amount
1.	Three day workshop on ML & app'ns using python.	2000/-
2.		
3.		
4.		
5.		
	Total	2000/-

Event Coordinator Name & sign
(MS Shwetkanti Tawar)

HOD/Dean/ Coordinator
(If Dept. level program)

Rs. 1950/- *for workshop*
HOD/Dean *A36* *Dean*

(Note:- Take sign of the Dean related to the Activity)

Principal/Director Remark:

A/c pl pay ₹ 1950/-

Submitted to account for payment/advance after approval of Principal/Director, ICEM

Account Remarks:

Date: *21.2.23*

Accounts Sign:

Principal/Director, ICEM

003_Budget Pre Approval.docx



Centre for Industrial Mathematics

Workshop on Machine Learning and Applications Using Python

Certificate

This is to certify that Mr./Ms./Dr./Prof. SHWETKRANTI NANASAHEB TAWARE

from INDIRA COLLEGE OF ENGG AND MANAGEMENT

successfully participated in *Workshop on Machine Learning and Applications Using Python* organised by Bhaskaracharya Pratishthana, Pune, during 8th - 10th February, 2023.

Dr. Ajay V. Deshmukh
Director,
Centre for Industrial Mathematics

Prof. S. A. Katre
Custodian
Bhaskaracharya Pratishthana



Bhaskaracharya Pratishthana

Off Law College Road, Pune 411004,
Maharashtra, India, www.bprim.org

Centre for Industrial Mathematics, Bhaskaracharya Pratishthana, Pune announces a course on
“Machine Learning (ML) and Applications Using Python”.

Duration -18 Hours (9 AM to 4.30 PM, 6 hours per day)

Course Dates: 8, 9 and 10th February 2023, (Wednesday to Friday)

Venue: off line, in AV Hall, Bhaskaracharya Pratishthana, Pune

Background: Industrial Applications of machine learning are very much demanding. This also requires a sound understanding of the mathematics, specifically Linear Algebra, Statistics and Python Programming. The course is aimed at becoming ready for industry projects using machine learning.

Objectives:

- To be ready for industry projects using **Machine Learning**
- Acquire the knowledge of Linear Algebra, Statistics, Python, and Machine Learning

Expected Outcome:- Ability to develop use cases using Machine Learning in PYTHON

Course Contents: Basics of Linear Algebra, Statistics, Python Programming, Machine Learning and Industry Applications.

Course Highlights:-

- Experienced faculty
- Hands on Exercises
- Examples with Industrial Applications
- Focus on Projects

Eligibility: Any Graduates or Students of Science/Engineering/Mathematics and working professionals from industries.

(Certificates shall be provided after successful completion of the course)

Registration Fees: INR 1950/- per participant. This includes breakfast, lunch and tea. (Based on availability, shared accomodation shall be provided in the guest house for outstation participants at INR 750/- for three days)

How to Register? For registration and on line payment of fees visit our website www.bprim.org and go to the admission portal,

Faculty:

- Prof. S. A. Katre ,Lokmanya Tilak Chair Professor of Mathematics Savitribai Phule Pune University (SPPU), Pune
- Dr. Ajay V. Deshmukh, Director, Centre for Industrial Mathematics, Bhaskaracharya Pratishthana, Pune
- Prof. Hrishikesh Khaladkar, Fergusson College Pune
- Prof. Pavan Dodya, Department of Mathematics, SPPU Pune
- Dr. Aman Jhinga, Post doctoral Researcher, Bhaskaracharya Pratishthana
- Vaishali A. Kolhatkar, Bhaskaracharya Pratishthana
- Kailas Chavan, Asst. Professor, Bhaskaracharya Pratishthana

Co-ordinator:- Ms. Ketaki Phadke, Bhaskaracharya Pratishthana, Cell 8796 05 0900

Convener: Dr. Ajay V. Deshmukh

Contact:- cimdirector@bprim.org, cell 7447 47 465

“ Mathematics for Artificial Intelligence and Machine Learning”

Schedule: 8,9,10 Feb 2023 from 9.00 AM to 4.30 PM (off line in AV Hall BP)

Session No.	Topic/Activity	Date	Speaker	Remarks
1	Day-1- Inaugural Overview of the Course Key Note- Importance of Mathematics TEA BREAK	8th Feb 2023	(Wednesday) Dr. Ajay V. Deshmukh Prof. S. A. Katre	30 min 10 min 45 min
2	Vector Spaces and norms		Mrs. Vaishali A. Kolhatkar	60 min
3	System of Differential Equations LUNCH BREAK		Prof. S. A. Katre	60 min
4	Matrix Algebra TEA BREAK		Mrs. Vaishali A. Kolhatkar	60 min
5	Matrix Algebra		Dr. Aman Jhinga	60 min
6	Eigen Values and Eigen Vectors		Dr. Aman Jhinga	60 min
7				
8	Day-2 9 th Feb 2023, (Thursday) SVD and its application		Dr. Aman Jhinga	60 min
9	Principle Component Analysis (PCA) TEA BREAK		Mrs. Vaishali A. Kolhatkar	60 min
10	Distribution Theory: Probability Density function, Distribution Functions, Moment generating function LUNCH BREAK		Mr. Kailas Chavan	60 min
11	Python Programming		Prof. Pavan Dodya	60 min
12	Python Programming TEA BREAK		Prof. Pavan Dodya	60 min
13	Python Programming		Prof. Pavan Dodya	60 min
14	Day 3 10 th Feb 2023, (Friday) Types of Distributions: Gaussian, Exponential, Chi Square, Raileigh		Mr. Kailas Chavan	60 min
15	t-test, chi sq. test TEA BREAK		Mr. Kailas Chavan	60 min
16	Machine Learning-I Machine Learning-II LUNCH BREAK		Prof. Hrishikesh Khaladkar	60 min
17	Machine Learning-III TEA BREAK		Prof. Hrishikesh Khaladkar	60 min
18	Industrial Applicatrions of Machine Learning Test, Feedback and Conclusion		Dr. Ajay V. Deshmukh Mr. Kailas Chavan	60 min 30 Min



Ref. No: ICEM/Comp Engg/2022-23/

Date: 11.02.2023

Dept. of Computer Engineering

Name of the Event: Three-day Workshop on Machine Learning (ML) and Applications

Using Python

Date: 8 Feb to 10 Feb 2023

Time: 09.00 am to 5.00pm

Venue: AV Hall, Bhaskaracharya Pratishthana, Pune

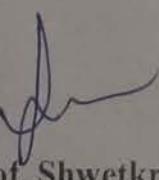
Target Audience: Any Graduates or Students of Science/Engineering/Mathematics and working professionals from industries.

Conducted by: Bhaskaracharya Pratishthana Team

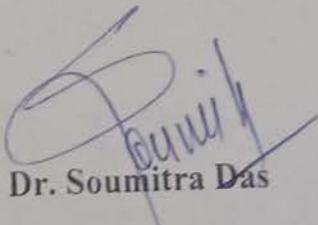
Report:

In this session different teacher conducted different session like Linear Algebra Vector Spaces and norms, Matrix Algebra, SVD, Python Programming, Probability Density function, Distribution Functions, Moment generating function, Chi Square, t-test, chi sq. test, machine learning and deep learning. This workshop will surely help the me as it is an Integral part of the research.




Prof. Shwetkranti Taware

Assistant Professor


Dr. Soumitra Das
HOD



Student's Name: Shwetkranti Taware
Mobile: 09763858530

Date: 07-02-2023

Transaction ID: 63e213794a567

Receipt No.	Department	Standard	Amount
165	Centre for Ind Math	Machine Learning and Applications using Python	1950

Amount in words: INR One Thousand Nine Hundred Fifty

Indira College of Engg. & Management (22-23)

HDFC Bank Payment Voucher

No. : 824

Dated : 3-Mar-2023

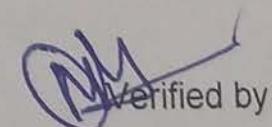
Particulars	Amount
Account :	
Faculty Development Programme Exp.	1,950.00
Through :	
HDFC Bank Ltd A/c No : 50200024798810	
On Account of :	
Being amount paid to Shelly Sinha for Three days Workshop on Machine Learing as details attached	
Bank Transaction Details:	
Cheque 303031961835 3-Mar-2023 1,950.00	
Amount (in words) :	
Indian Rupees One Thousand Nine Hundred Fifty Only	₹ 1,950.00

Receiver's Signature:



Checked by

Authorised Signatory



Verified by

PRE Budget-ApprovalDate - 11/02/2023

Title of the Activity: - 3-day workshop on Machine Learning & Applications using Python.

Level: - College level / Dept. level

Department / Section Computer Engg.Name of coordinator: - Prof. Shelly Sinha Staff ID: - 2205 Mob. No 8919724645Resource person & Affiliation (if any): - Bhaskaracharya BratisthanaActivity Scheduled date: - 8th - 10th Feb 2023 Time: - 9:00 AM + 4:00 PM

Note: *If HOD / Dean/ Coordinator has intimated this head under academic budget (at the start of AY) then only this will be considered approval.

*Following is the budgetary requirement for the scheduled event, kindly sanction/approve

Sr. No.	Details/Particulars	Estimated amount
1.	3-day Workshop on	<u>1950/-</u>
2.	Machin Learning &	
3.	Appn using Python	
4.		
5.		
	Total	<u>1950/-</u>

Shelly
Prof. Shelly Sinha
Event Coordinator Name & sign

Ramnikal
HOD/Dean/ Coordinator
(If Dept. level program)

Basavshankar
Dean

(Note:- Take sign of the Dean related to the Activity)

Principal/Director Remark:

Alc Pay 1950/-

Submitted to account for payment/advance after approval of Principal/Director, ICEM

Account Remarks: _____

Date:

Accounts Sign:

Basavshankar
Principal/Director, ICEM



D

To Bhaskarcharya Paristhan

₹1,950

Pay again

Split with friends

Completed

Feb 8, 2023 9:38 AM

UCO Bank
XXXXXXXXXX2035

UPI transaction ID

303912790929

To

.... 4305

From: SHELLY SINHA (UCO Bank)

shellysinha.cse12-1@okicici

Google transaction ID

CICAgJCNkpmFlg

Powered by



Centre for Industrial Mathematics

Workshop on Machine Learning and Applications Using Python

Certificate

This is to certify that Mr./Ms./Dr./Prof. SHELLY SINHA

from Indira College of Engineering and Management, Pune

successfully participated in *Workshop on Machine Learning and Applications Using Python* organised by Bhaskaracharya Pratishthana, Pune, during 8th - 10th February, 2023.

Dr. Ajay V. Deshmukh
Director,
Centre for Industrial Mathematics

Prof. S. A. Katre
Custodian
Bhaskaracharya Pratishthana



Ref. No: ICEM/Comp Engg/2022-23/

Date: 11.02.2023

Dept. of Computer Engineering

Name of the Event: 3-day Workshop on Machine Learning (ML) and Applications Using Python

Date: 8 Feb to 10 Feb 2023

Time: 09.00 am to 5.00pm

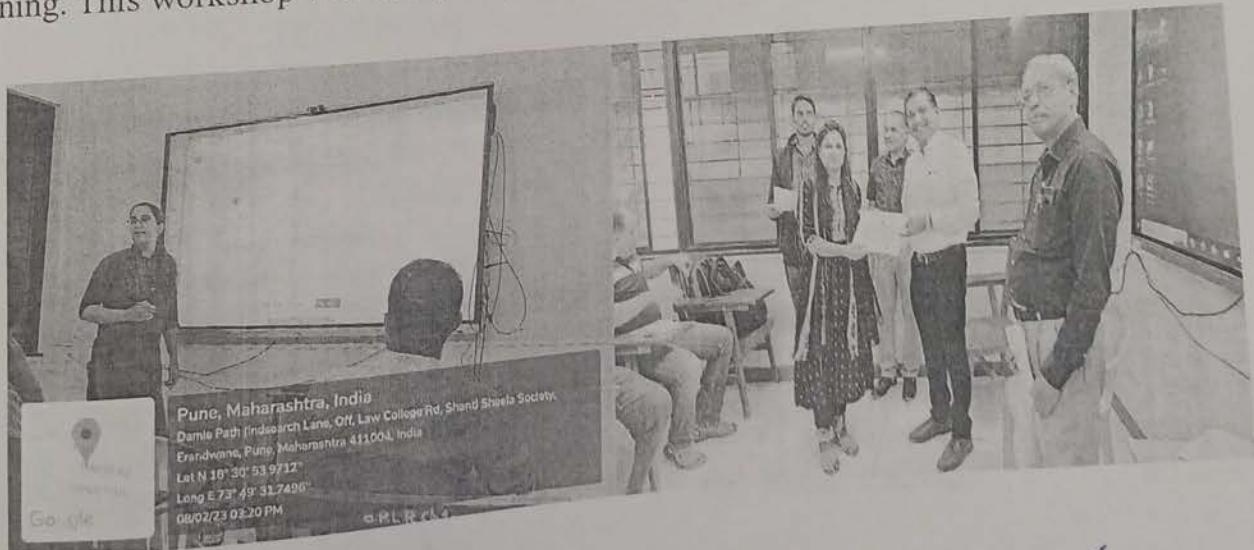
Venue: AV Hall, Bhaskaracharya Pratishthana, Pune

Target Audience: Any Graduates or Students of Science/Engineering/Mathematics and working professionals from industries.

Conducted by: Bhaskaracharya Pratishthana Team

Report:

In this session different teacher conducted different session like Linear Algebra Vector Spaces and norms, Matrix Algebra, SVD, Python Programming, Probability Density function, Distribution Functions, Moment generating function, Chi Square, t-test, chi sq. test, machine learning and deep learning. This workshop will surely help the me as it is an Integral part of the research.



Prof. Shelly Sinha

Assistant Professor

Dr. Soumitra Das
HOD

“ Mathematics for Artificial Intelligence and Machine Learning”

Schedule: 8,9,10 Feb 2023 from 9.00 AM to 4.30 PM (off line in AV Hall BP)

Session No.	Topic/Activity	Speaker	Remarks
	Day-1	8th Feb 2023	(Wednesday)
1	Inaugural		30 min
	Overview of the Course	Dr. Ajay V. Deshmukh	10 min
	Key Note- Importance of Mathematics	Prof. S. A. Katre	45 min
	TEA BREAK		
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	Day 3 10th Feb 2023, (Friday)		
15	Types of Distributions: Gaussian, Exponential, Chi Square, Raileigh	Mr. Kailas Chavan	60 min
16	t-test, chi sq. test	Mr. Kailas Chavan	60 min
	TEA BREAK		
17	Machine Learning-I	Prof. Hrishikesh Khaladkar	60 min
18	Machine Learning-II	Prof. Hrishikesh Khaladkar	60 min
	LUNCH BREAK		
19	Machine Learning-III	Prof. Hrishikesh Khaladkar	60 min
	TEA BREAK		
20	Industrial Applicatrions of Machine Learning	Dr. Ajay V. Deshmukh	60 min
	Test, Feedback and Conclusion	Mr. Kailas Chavan	30 Min

Pre-Approval (College / Dept level Program)

Date - 06/02/2023

Title of the Activity: - 3-day workshop on Machine Learning & Applications Using Python.

Level: - College level / Dept. level

Department / Section Computer Engg.

Name of coordinator: Prof. Shelly Sinha Staff ID: 2285 Mob. No 8919724645

Resource person & Affiliation (if any): Bhaskaracharya Pratisthana

Activity Scheduled date: - 8th - 10th Feb 2023 Time: 9:00 AM to 4:30 PM

Participants: - Faculty / Staff / Students / All

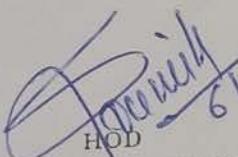
Participants Class _____ Expected strength of Audience _____

Note:

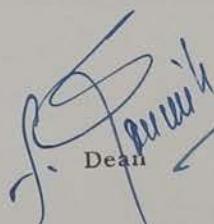
1. For budgetary requirement (if any) format No.003
2. This is only activity approval; this don't indicate expenses approval.



Prof. Shelly Sinha
Coordinator Name & sign



HOD
(If Dept. level program)

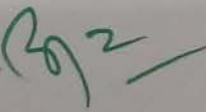


Dean

(Note: - Take sign of the Dean related to the Activity)

Remarks: -

Ref No :-



Principal
ICEM



Bhaskaracharya Pratishthana

Off Law College Road, Pune 411004,
Maharashtra, India, www.bprim.org

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Faculty: Savitribai Phule Pune University

- Prof. S. A. Katre, Lokmanya Tilak Chair Professor of Mathematics Savitribai Phule Pune University (SPPU), Pune
- Dr. Ajay V. Deshmukh, Director, Centre for Industrial Mathematics, Bhaskaracharya Pratishthana, Pune
- Prof. Hrishikesh Khaladkar, Fergusson College Pune
- Prof. Pavan Dodya, Department of Mathematics, SPPU Pune
- Dr. Aman Jhinga, Post doctoral Researcher, Bhaskaracharya Pratishthana
- Vaishali A. Kolhatkar, Bhaskaracharya Pratishthana
- Kailas Chavan, Asst. Professor, Bhaskaracharya Pratishthana

Co-ordinator:- Ms. Ketaki Phadke, Bhaskaracharya Pratishthana, Cell 8796 05 0900

Convener: Dr. Ajay V. Deshmukh

Contact:- cimdirector@bprim.org, cell 7447 47 465

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