



POORNIMA

INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

Five Days Offline Short Term Course (STC)

on

“Machine Learning using Python”

as Remote Center along with the National Institute of Technical
Teachers Training & Research, Chandigarh (NITTTR).

Session (2021-2022)



In collaboration

AICTE Sponsored MODROBS Neural Network & Deep Learning Lab, PIET
&

COE in High Performance Computing for Intelligent Systems, PIET

Submitted By: -
Ms. Pooja Sharma
STC Coordinator
Department of Computer Engineering
PIET

Submitted To:-
Dr. Dinesh Goyal
Director
PIET

PRINCIPAL

Poornima Institute of Engineering
& Technology
ISI-2, RIICO Institutional Area
Goner Road, Sitapura Jaipur-302022

Report
on
Five Days Offline Short Term Course (STC)
on
“Machine Learning using Python”
on
From 28.03.2022 to 01.04.2022

In collaboration
AICTE Sponsored MODROBS Neural Network & Deep Learning Lab, PIET
&
COE in High Performance Computing for Intelligent Systems, PIET

Organized By-
Department of Computer Engineering
Poornima Institute of Engineering & Technology
as Remote Center along with the National Institute of Technical Teachers
Training & Research, Chandigarh (NITTTR).



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Sanction Letter

4/8/22, 1:02 PM

Poornima Group Mail - Reg. Essential Documents and instructions for Local Coordinators



Pooja Sharma <poojait@poornima.org>

Reg. Essential Documents and instructions for Local Coordinators

3 messages

shano <shano@nitttrchd.ac.in>

23 March 2022 at 17:16

To: shailendra236@gmail.com, sarojkumargupta@gmail.com, jp.patra@ssipmt.com, satyabrat.sahoo@silicon.ac.in, anupriya@mru.edu.in, joshi.it@drmgrdu.ac.in, vitsitonline1@vignanits.ac.in, neeta@gbu.ac.in, anuj.coecse@cgce.edu.in, vramesh@kanchiuniv.ac.in, jcsekhar9@gmail.com, tpomrecw@gmail.com, veena.bharti@abesit.edu.in, poojait@poornima.org, pl.bca@cumail.in, mangesh.ghonge@sitrc.org, khalilahmed@bgsbu.ac.in, varsha.548@ctgroup.in

Dear Local Coordinators,

Kindly follow the instructions given below:

INSTRUCTIONS FOR THE REMOTE CENTER COORDINATORS:

Please find the attached Time-Table for STC on "Machine Learning using Python", Daily Attendance Sheet , Compiled Attendance Sheet, Honorarium Receipt Form and Certificate Printing Details Form for your reference.

1. Prior checking of AV system, Projector Screen, Web-Camera, Internet Connection, mics, speakers, etc. These equipment should be functional in all the sessions without any interruption.
2. Web-Camera should be placed in the conference hall / lab of remote centres such that all participants
3. Starting the session on-time.
4. Marking the attendance of the sessions in the first half and second-half in the *Daily Attendance Sheet*. Attendance should be taken on Daily basis. Participants are required to sign their attendance sheet after filling their details properly.
5. Coordinators must verify the attendance of the participants at their centres in the *Compiled Attendance Sheet*.
6. All the documents are required to be signed, stamped and verified by the local coordinators and Head of the Institutions.
7. Minimum 80% attendance and 40% marks in the test are required to get the certificate.

8. Google Meeting Link for Joining the session for all days:

meet.google.com/eqe-drax-gyo

Regards

Er. Shano Solanki
Associate Prof., CSE
NITTTR, Chandigarh
Website : www.nitttrchd.ac.in
09872920296
0172-2759696

<https://mail.google.com/mail/u/0/?ik=0bde48274c&view=pt&search=all&permthid=thread-f%3A1728091002412138269&siml=msg-f%3A1728091002412138269> 1/2



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**Poornima Institute of Engineering
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ISI-2, RIICO Institutional Area
Goner Road, Sitapura Jaipur-302022

Brochure

Five Days Short Term Course (STC)
On
"Machine Learning using Python"
From
28.03.2022 to 01.04.2022



WITH



In collaboration

AICTE Sponsored MODROBS Neural Network & Deep Learning Lab, PIET

&

COE in High Performance Computing for Intelligent Systems, PIET



COORDINATOR-

Dr. Anil Kumar

Professor, CSE, PIET

Ms. Pooja Sharma

Assistant Professor, CSE, PIET

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**Poornima Institute of Engineering
& Technology**

**ISI-2, RIICO Institutional Area
Goner Road, Sitapura Jaipur-302022**

Five Days Short Term Course (STC)
On
MACHINE LEARNING USING PYTHON

March 28 to April 01, 2022



Organized by



WITH

REMOTE CENTER



POORNIMA
INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA



In Collaboration with

AICTE Sponsored MODROBS

Neural Network & Deep Learning Lab, PIET
&

Center of Excellence

High Performance Computing for Intelligent Systems

Coordinators

Dr. Anil Kumar

Associate Professor, Department of Computer Engineering, PIET

Dr. Pooja Sharma

Assistant Professor, Department of Computer Engineering, PIET

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Five Days Offline Short Term Course (STC) on “Machine Learning using Python”

as Remote Center along with the National Institute of Technical Teachers Training & Research, Chandigarh (NITTTR).

From 28.03.2022 to 01.04.2022

**Time-9:30 AM-11:00 AM
11:30 AM-1:00 AM
2:30 PM-4:00 PM**

Mode- Online (Google Meet)

Resource Persons

Course Coordinator: Er. Shano Solanki, Associate Prof., CSE , NITTTR

Outside Experts:

Dr. Sarbjeet Singh, Professor CSE, UIET, Chandigarh

Dr. Mahipal Jadeja, Assistant Professor, MNIT, Jaipur

Dr. Gaurav Kumar, Magma Research and Consultancy Limited, Ambala.

Shruti Wadhwa Khatri, Director, Hash Logic Infosec Pvt. Ltd., Chandigarh

**Selected Participants
for STC- 30**

Mode of FDP: ICT Based


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Goner Road, Sitapura Jaipur-302022**

Detailed Report

Department of Computer Engineering, Poornima Institute of Engineering & Technology has conducted Five Days Offline Short Term Course (STC) on “Machine Learning using Python” as Remote Center along with the National Institute of Technical Teachers Training & Research, Chandigarh (NITTTR) from 28.03.2022 to 01.04.2022

About Institute:

Poornima Institute of Engineering & Technology, Jaipur, PIET, a premier institution in engineering education was established in the academic year 2007, is affiliated to Rajasthan Technical University, and approved by AICTE. PIET aims at providing world-class technical and scientific education that can develop a professional outlook in every walk of life and has been ranked 3rd in QIV ranking. Some of notable achievements are as follows:

- PIET has been 1st Institution to offer B.Tech CSE in Regional language
- PIET is accredited by National Assessment and Accreditation Council (NAAC).
- Two of its programs Namely B.Tech in Computer Engineering and B.Tech in Civil Engineering are accredited by National Board of Accreditation (NBA), India for the quality education.
- PIET has been rated PLATINUM in Survey of Industry Linked Technical Institutes conducted by AICTE-CII.
- PIET is the only institute in Rajasthan to be funded by AICTE with a fund of Rs. 55 Lakh for establishing IDEA Lab.
- PIET has been granted in aid of Rs. 12.84314/- for establishing Neural Network & Deep Learning Lab under MODROB Scheme.
- Received Research Grant for more than 50 Lakh in 2019-20 & 2020-21 from agencies like TEQIP III, AICTE, NITTTR etc



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About Department

The Department of Computer Engineering is one of the finest and most diverse departments in the Poornima Foundation as well as in the Rajasthan Technological University, Kota. We offer the B.Tech in Computer Engineering since year 2007. I am glad to inform that Department has been accredited by National Board of Accreditation (NBA) and it is now in elite list of departments in India which has got this accreditation. The department of Computer Engineering offers B.Tech degree course with an approved intake of 180 students per year. Department makes the student industry ready with all practical experience by introducing new technology Machine learning, Data Science, Salesforce. Department has Huge Alumni base of more than 900 Alumni currently working with MNC's and Government Institutions.

About: Short Term Course (STC) on “Machine Learning using Python ” as Remote Center along with the National Institute of Technical Teachers Training & Research, Chandigarh (NITTTR)

NITTTR, Chandigarh has announced 5 Days STC on “Machine Learning using Python” which was a ICT based Short Term Course for faculty members, Poornima Institute of Engineering & Technology has become the Remote Center for the conduction of this STC. Total 30 Participants were participated in this course. The STC was conducted in collaboration with AICTE Sponsored MODROBS Neural Network & Deep Learning Lab, PIET & COE in High Performance Computing for Intelligent Systems, PIET. Er. Shano Solanki, Associate Prof., CSE from NITTTR was the coordinator of the course & Ms. Pooja Sharma, Assistant Professor, CSE, PIET was the Remote Center local coordinator of the course. The STC on Machine Learning using Python is intended to imparting knowledge and training on the fundamentals ML like supervised & unsupervised learning. There were total 14 sessions on different topics of Machine learning like regression, classification, clustering, recommender system, visualization in python. All the sessions were theory as well as practical demonstration.

At the end of day feedback link was shared with all remote centers & quiz was conducted. Participants have shared their feedback regarding STC. This STC has helped faculty members to work different machine learning algorithm & their real time implementation using python.



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Schedule of Program

Department of Computer Science and Engineering, NITTTR, Chandigarh
Time Table for STC on Machine Learning using Python
from 28.03.2022 TO 01.04.2022 (ICT-177)

Day	9:30 a.m. to 11 a.m.	11:30 a.m. - 1:00 p.m.	1:00 p.m. - 2:00 p.m.	2:30 p.m.- 4:00 p.m.
28.03.2022 (Monday)	Overview of Machine Learning (Er. Shano Solanki)	Introduction to Linear Regression with One Variable (Dr. Mahipal Jadeja)	L U N C H B R E A K	Multivariate Linear Regression (Dr. Mahipal Jadeja)
29.03.2022 (Tuesday)	Overview of types of clustering, DBSCAN and EM Algorithm for clustering (Dr. Sarbjeet Singh)	Dimensionality Reduction using PCA (Dr. Sarbjeet Singh)		Python Data Structures and File Handling (Er. Shano Solanki)
30.03.2022 (Wednesday)	Heart Attack Prediction using Logistic Regression (Shruti Wadhwa)	Pneumonia Detection using SVM (Shruti Wadhwa)		Python for Data Visualization (Er. Shano Solanki)
31.03.2022 (Thursday)	Ensembled Learning Techniques (Dr. Gaurav Kumar)	Movie Rating Prediction using Collaborative Filtering and Low Rank Matrix Factorization (Dr. Gaurav Kumar)		Practice Session (Er. Shano Solanki)
01.04.2022 (Friday)	Crop Recommendation using Random Forest (Shruti Wadhwa)	Intrusion Detection Using K-Nearest Neighbor (Shruti Wadhwa)		Quiz, Feedback and Evaluation (Er. Shano Solanki)

Course Coordinator: Er. Shano Solanki, Associate Prof., CSE

Outside Experts: Dr. Sarbjeet Singh, Professor CSE, UIET, Chandigarh

Dr. Mahipal Jadeja, Assistant Professor, MNIT, Jaipur

Dr. Gaurav Kumar, Magma Research and Consultancy Limited, Ambala

Shruti Wadhwa Khatri, Director, Hash Logic Infosec Pvt. Ltd., Chandigarh

Head of Department



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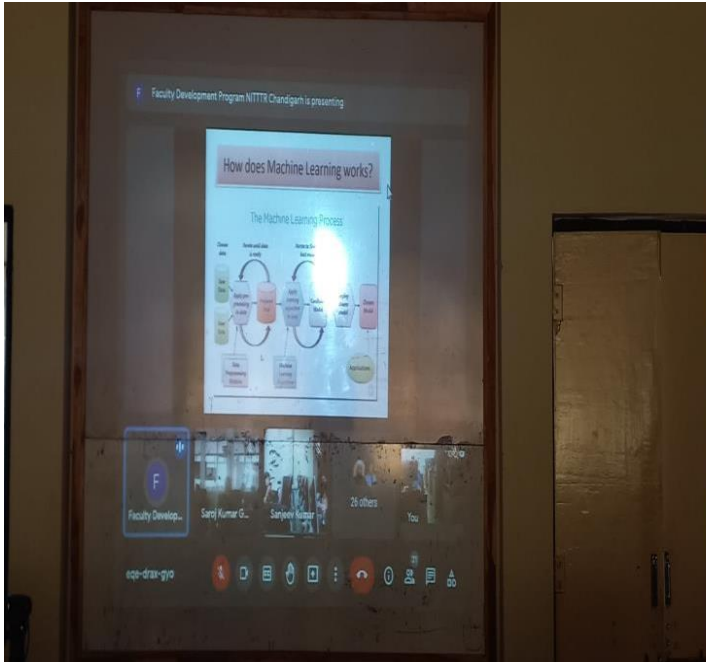
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STC Sessions

Day-01

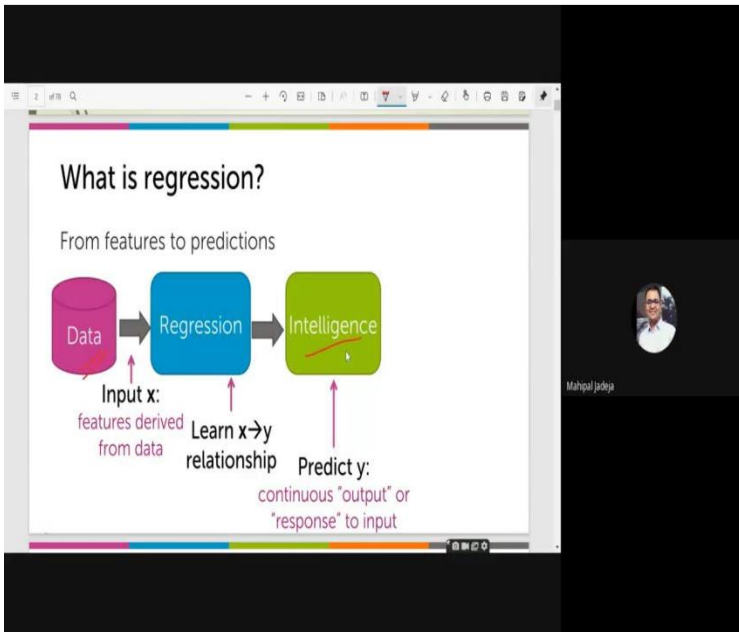
Session-1 Overview of Machine Learning

Resource Person- Er. Shano Solanki



Session-2 Introduction to Linear Regression with One Variable

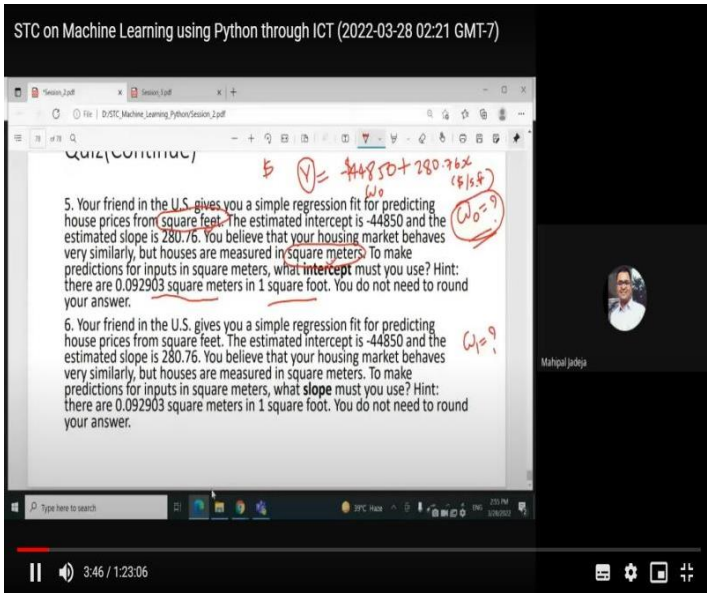
Resource Person- Dr. Mahipal Jadeja



[Handwritten Signature]
PRINCIPAL

Session-3 Multivariate Linear Regression

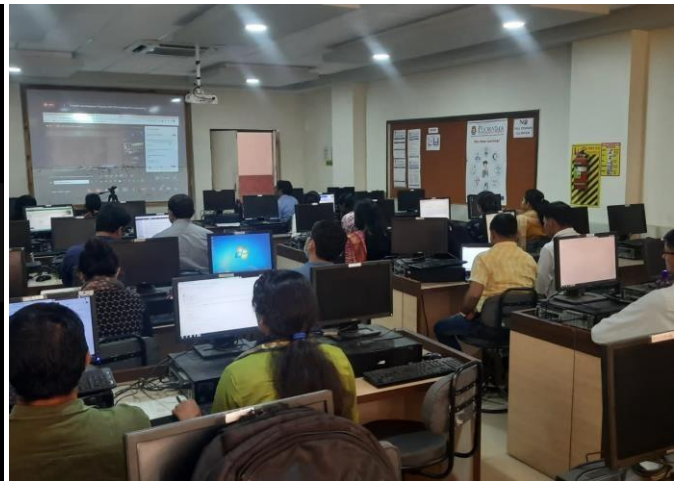
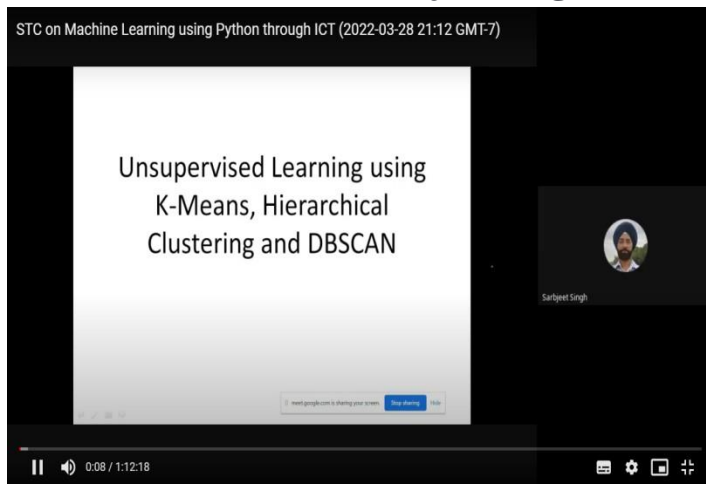
Resource Person- Dr. Mahipal Jadeja



Day-02

Session-4 Overview of types of clustering, DBSCAN and EM Algorithm for clustering

Resource Person (Dr. Sarbjeet Singh)



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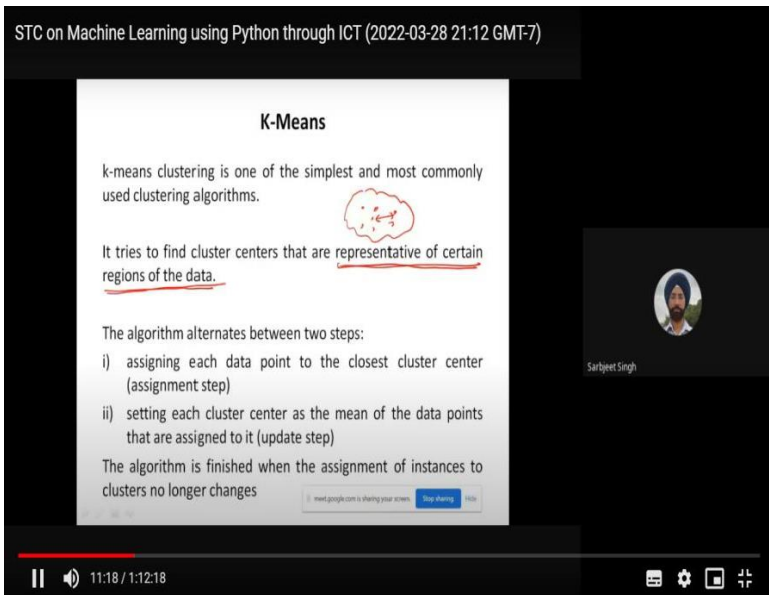
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Session-5 Dimensionality Reduction using PCA

Resource Person (Dr. Sarbjeet Singh)

STC on Machine Learning using Python through ICT (2022-03-28 21:12 GMT-7)



K-Means

k-means clustering is one of the simplest and most commonly used clustering algorithms.

It tries to find cluster centers that are representative of certain regions of the data.

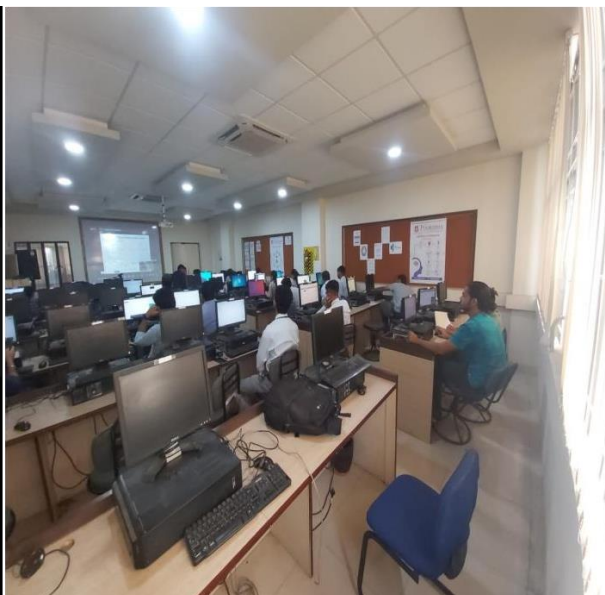
The algorithm alternates between two steps:

- assigning each data point to the closest cluster center (assignment step)
- setting each cluster center as the mean of the data points that are assigned to it (update step)

The algorithm is finished when the assignment of instances to clusters no longer changes

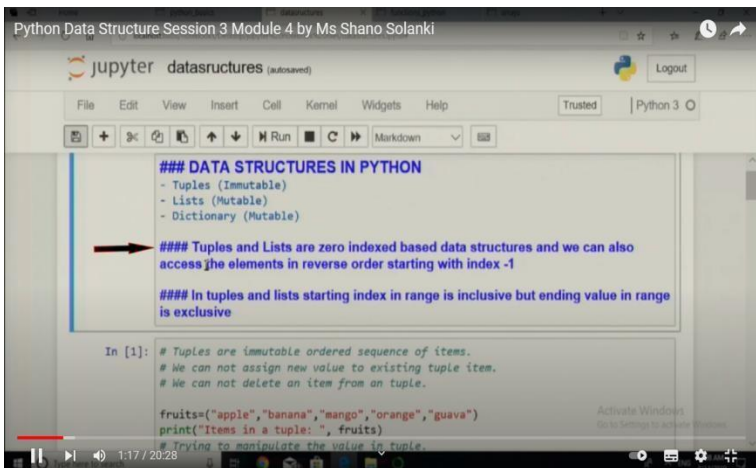
Handwritten note: K-Means

Video player controls: 11:18 / 1:12:18



Session-6 Python Data Structures and File Handling

Resource Person (Er. Shano Solanki)



Python Data Structure Session 3 Module 4 by Ms Shano Solanki

```
##### DATA STRUCTURES IN PYTHON
- Tuples (Immutable)
- Lists (Mutable)
- Dictionary (Mutable)

##### Tuples and Lists are zero indexed based data structures and we can also
access the elements in reverse order starting with index -1

##### In tuples and lists starting index in range is inclusive but ending value in range
is exclusive

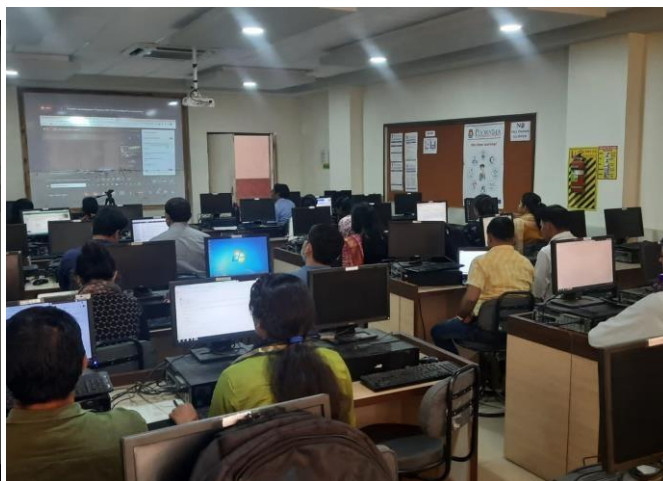
In [1]: # Tuples are immutable ordered sequence of items.
# We can not assign new value to existing tuple item.
# We can not delete an item from a tuple.

fruits=("apple","banana","mango","orange","guava")
print("Items in a tuple: ", fruits)

# Trying to manipulate the value in tuple.
```

Handwritten note: Tuples and Lists are zero indexed based data structures and we can also access the elements in reverse order starting with index -1

Video player controls: 1:17 / 20:28



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Day-3

Session-7 Heart Attack Prediction using Logistic Regression

Resource Person (Ms. Shruti Wadhwa)

```
+ Code + Text Changes will not be saved Connect [ ] [ ] Uploaded-files.upload() Choose Files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable. Saving heart.csv to heart (1).csv dataset= pd.read_csv('heart.csv') dataset
```

	age	sex	cp	trtbps	chol	fb	restecg	thalachh	exng	oldpeak	slp	caa	thall	output
0	63	1	3	145	233	1	0	150	0	2.3	0	0	1	1
1	37	1	2	130	250	0	1	187	0	3.5	0	0	2	1
2	41	0	1	130	204	0	0	172	0	1.4	2	0	2	1
3	56	1	1	120	236	0	1	178	0	0.8	2	0	2	1
4	57	0	0	120	354	0	1	163	1	0.6	2	0	2	1
...
298	57	0	0	140	241	0	1	123	1	0.2	1	0	3	0
299	45	1	3	110	264	0	1	132	0	1.2	1	0	3	0
300	68	1	0	144	193	1	1	141	0	3.4	1	2	3	0
301	57	1	0	130	131	0	1	115	1	1.2	1	1	3	0



Session-8 Pneumonia Detection using SVM

Resource Person (Shruti Wadhwa)

```
+ Code + Text Changes will not be saved Connect [ ] [ ] dataset.describe()
```

	age	sex	cp	trtbps	chol	fb	restecg	thalachh	exng	oldpeak
count	303.000000	303.000000	303.000000	303.000000	303.000000	303.000000	303.000000	303.000000	303.000000	303.000000
mean	54.366337	0.683168	0.966997	131.623762	246.264026	0.148515	0.528053	149.646865	0.326733	1.039604
std	9.082101	0.466011	1.032052	17.538143	51.830751	0.356198	0.525860	22.905161	0.469794	1.161075
min	29.000000	0.000000	0.000000	94.000000	126.000000	0.000000	0.000000	71.000000	0.000000	0.000000
25%	47.500000	0.000000	0.000000	120.000000	211.000000	0.000000	0.000000	133.500000	0.000000	0.000000
50%	55.000000	1.000000	1.000000	130.000000	240.000000	0.000000	1.000000	153.000000	0.000000	0.800000
75%	61.000000	1.000000	2.000000	140.000000	274.500000	0.000000	1.000000	166.000000	1.000000	1.600000
max	77.000000	1.000000	3.000000	200.000000	564.000000	1.000000	2.000000	202.000000	1.000000	6.200000

```
# Extracting dependent and independent variables:  
# Extracting independent variable:  
X = dataset.iloc[:, :-1].values  
# Extracting dependent variable:  
y = dataset.iloc[:, 13].values
```



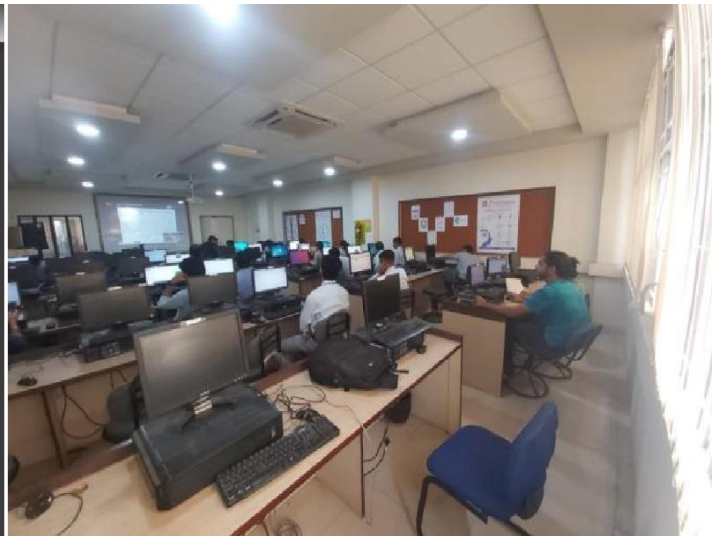
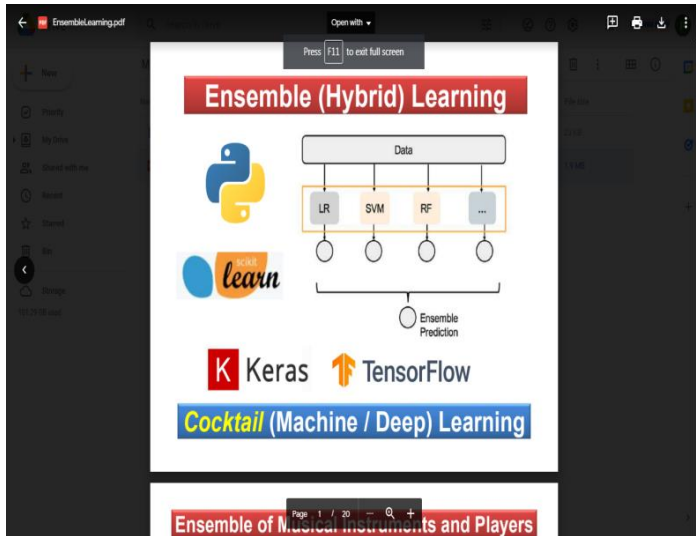
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Session-9 Python for Data Visualization
Resource Person (Er. Shano Solanki)



Day-4
Session-10 Ensemble Learning Techniques
Resource Person (Dr. Gaurav Kumar)



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Session-11 Movie Rating Prediction using Collaborative Filtering and Low Rank Matrix Factorization

Resource Person (Dr. Gaurav Kumar)

```
+ Code + Text
Connect
estimators.append(('nbs4', model34))
# model35 = GaussianNB()
# estimators.append(('nbs5', model35))

# Defining the ensemble model
ensemble = VotingClassifier(estimators)
ensemble.fit(X_train, y_train)
y_pred = ensemble.predict(X_test)

#Confusion matrix
cm_HybridEnsembler = confusion_matrix(y_test, y_pred)

#Cross-Validation
seed = 7
kfold = model_selection.KFold(n_splits=10, random_state=seed, shuffle=True)
results = model_selection.cross_val_score(ensemble, X_train, y_train, cv=kfold)
print(results.mean())

print(cm_HybridEnsembler)

@_836235294117647
[[1182  12]
 [ 235  71]]
```



Session-12 Practice Session

Resource Person (Er. Shano Solanki)



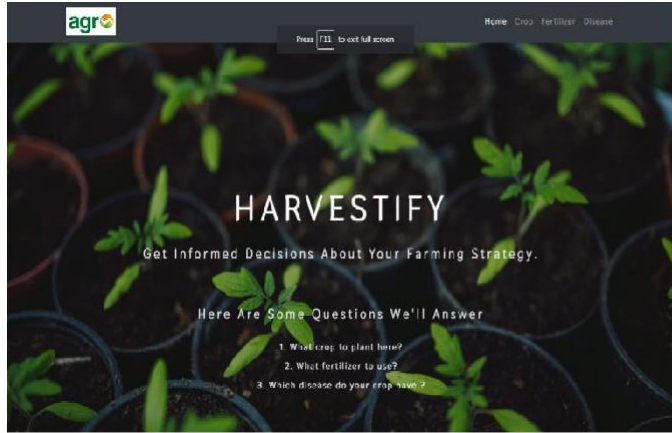
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Day-5

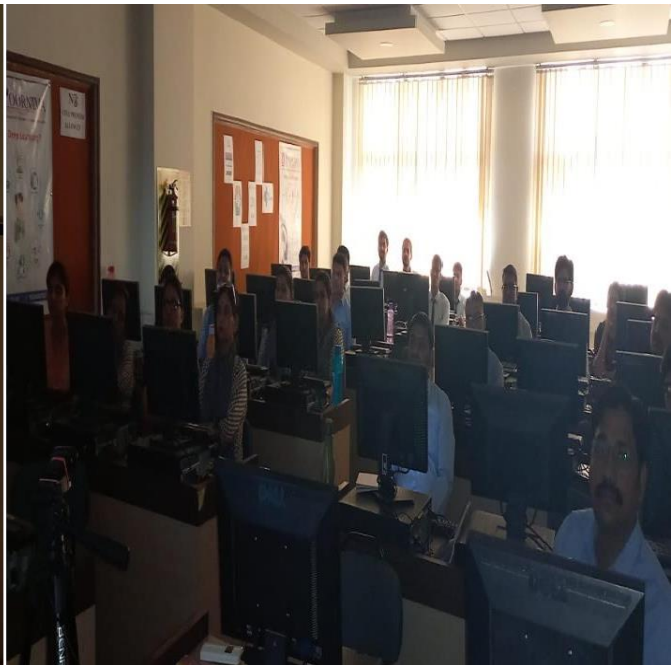
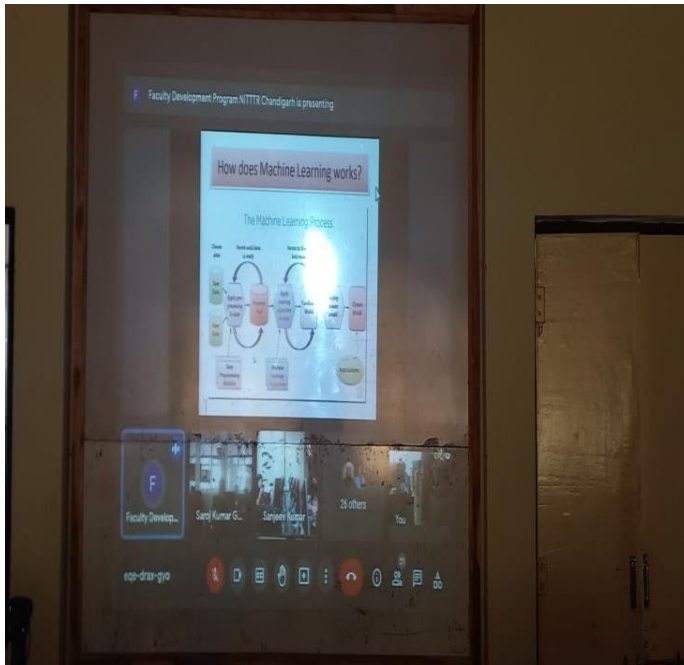
Session-13 Crop Recommendation using Random Forest

Resource Person (Shruti Wadhwa)



Session-14 Intrusion Detection Using K-Nearest Neighbor

Resource Person (Shruti Wadhwa)



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STC Participants Group Photo




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List of Participants.

Sr. No.	Name of the Participant	Name of the Department/ Designation	College
1	Dr. Anil Kumar	CSE/Associate Professor	Poornima Institute of Engineering & Technology, Jaipur
2	Atrakesh Pandey	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
3	Deepak Moud	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
4	Mamta Sakpal	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
5	Dr. Shruti Thapar	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
6	Muskan Kumari	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
7	Nandani Sharma	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
8	Dr. Neeraj Bhardwaj	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
9	Neha Choudhary	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
10	Pooja Sharma	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
11	Dr. Priyanka Kaushik	CSE/Associate Professor	Poornima Institute of Engineering & Technology
12	Dr. Purushottam Lal	CSE/Associate Professor	Poornima Institute of Engineering & Technology
13	Dr. Rakhi Mutha	CSE/Associate Professor	Poornima Institute of Engineering & Technology
14	Ramandeep Kaur	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
15	Dr. Rekha Jain	CSE/Professor	Poornima Institute of Engineering & Technology
16	Ritu Shukla	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
17	Dr. Sandeep Kumar Sharma	CSE/Associate Professor	Poornima Institute of Engineering & Technology


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18	Sandeep Tuli	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
19	Shefali Parihar	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
20	Shikha Gautam	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
21	Vikram Khandelwal	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
22	Yogender Kumar Sharma	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
23	Abhishek Dadhich	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
24	Alka Rani	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
25	Priyanka Sharma	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
26	Rahul Gupta	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
27	Dr. Priya Mathur	CSE/Associate Professor	Poornima Institute of Engineering & Technology
28	Nikita Gautam	CSE/Assistant Professor	Poornima College of Engineering
29	Mr. Gaurav Sharma	CSE/Assistant Professor	Poornima Institute of Engineering & Technology
30	Mr. Pawan Kumar Patidar	CSE/Assistant Professor	Poornima Institute of Engineering & Technology



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QUIZ Results

Participant Name (in Capital Letters)	Score	Institute Name (in Capital Letters)
ABHISHEK DADHICH	25 / 25	POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY, JAIPUR
ALKA RANI	25 / 25	POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY
Anil Kumar	25 / 25	POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY
ATRAKESH PANDEY	25 / 25	POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEEPAK MOUD	24 / 25	POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY
Dr Purushottam L. Bhari	25 / 25	POORNIMA INSTITUTE OF ENGINEERING AND TECHNOLOGY, JAIPUR
Dr REKHA JAIN	23 / 25	POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY
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