

EVENT REPORT

Name of Event: One day Hands-on workshop on "Data Science".

Date of Event: April 12th, 2022 (Tuesday)

Time: 1:30 PM - 4:30 PM

Organized by: National Instruments Innovation Cell, COE- Electronics & Communication Engineering Department, ITS Engineering College, Greater Noida & e-YANTRA

Coordinator: Mr. Prabhakar Sharma (Coordinator- NI- COE), Assistant Professor- ECE Department.

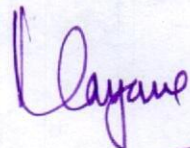
Eminent Speaker: Er. Rohit Pahwa, Machine Learning Expert- Shapemyskill Pvt. Ltd- Gautam Budh Nagar.

Objective: The main objective of this program was to understand the importance, applications, challenges and opportunities in Data science with short orientation program included with some Hands-on practical examples.

Report:

On April 12th, 2022 National Instruments Innovation Cell, COE- ECE Department, ITS Engineering College organized **One day Hands-on workshop on "Data Science"**. The session was delivered by **Er. Rohit Pahwa, Machine Learning Expert-- Shapemyskill Pvt. Ltd.** Our Head of Department Dr. Monika Jain welcomed our speaker. Hands-on Workshop started at 1:30 PM in National Instruments –COE- ITS engineering college- Gr.Noida. First Mr. Pahwa introduced yourself and then starting hands-on workshop. All students download anaconda software (Python) and do some examples of data science using python. This workshop was attended by students of ECE 2nd year, 3rd year and EEE 3rd year. **Er. Rohit Pahwa** discussed about the data science, its importance, applications, advantages, challenges and career opportunities in Data science with various examples. In last he cleared various doubts of students very well. Workshop was being closed by vote of thanks by the Mr. Prabhakar Sharma, Coordinator of this event.





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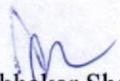


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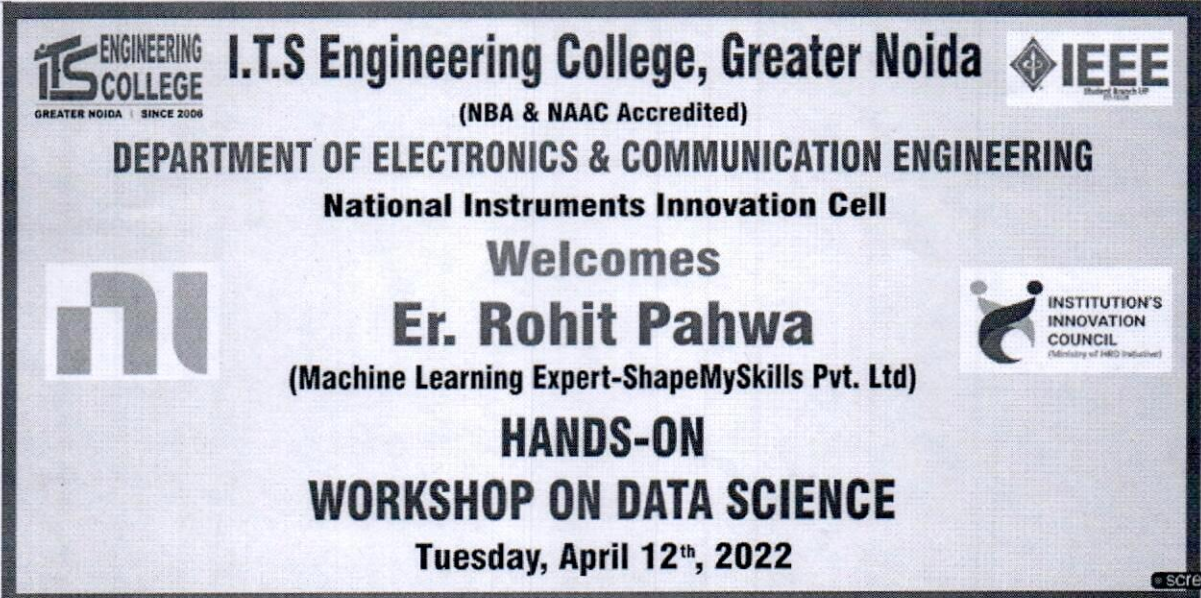
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Program Outcome: Student are motivated about Data Science and its current industrial opportunities. All Students immediately received participation e-certification through shapemyskill portal (attached with this report also).

Program attendance: 31 students (ECE) + 5 (EEE)


Prabhakar Sharma
(Program Coordinator)

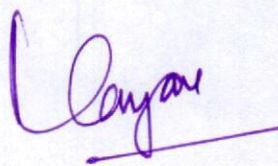
Workshop Banner:



The banner features the ITS Engineering College logo on the left and the IEEE logo on the right. The central text reads: 'I.T.S Engineering College, Greater Noida (NBA & NAAC Accredited) DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING National Instruments Innovation Cell Welcomes Er. Rohit Pahwa (Machine Learning Expert-ShapeMySkills Pvt. Ltd) HANDS-ON WORKSHOP ON DATA SCIENCE Tuesday, April 12th, 2022'. There is also a logo for the Institution's Innovation Council on the right side of the banner.

CERTIFICATE SAMPLE:




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SHAPEMYSKILLS PRIVATE LIMITED E-CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms Ravi Kumar Shah has
successfully Participated in One Day Workshop
on Data Science held on 12 Apr 2022
at ITS Engineering College, Greater Noida,

Sanyam Dixit
Mr. Sanyam Dixit
Managing Director

Shape My Skills
TRAINING | DEVELOPMENT | PLACEMENT

Kuldeep Dixit
Mr. Kuldeep Dixit
Marketing Director

OUR PARTNERS

Microsoft Partner

Bentley Institute

WhiteHat Jr

Pearson

StartCoding

Wondershare

SHAPEMYSKILLS PRIVATE LIMITED E-CERTIFICATE OF PARTICIPATION

This is to certify that

Mr./Ms Saurav Bharti has
successfully Participated in One Day Workshop
on Data Science held on 12 Apr 2022
at ITS Engineering College, Greater Noida,

Sanyam Dixit
Mr. Sanyam Dixit
Managing Director

Shape My Skills
TRAINING | DEVELOPMENT | PLACEMENT

Kuldeep Dixit
Mr. Kuldeep Dixit
Marketing Director

OUR PARTNERS

Microsoft Partner

Bentley Institute

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Pearson

StartCoding

Wondershare

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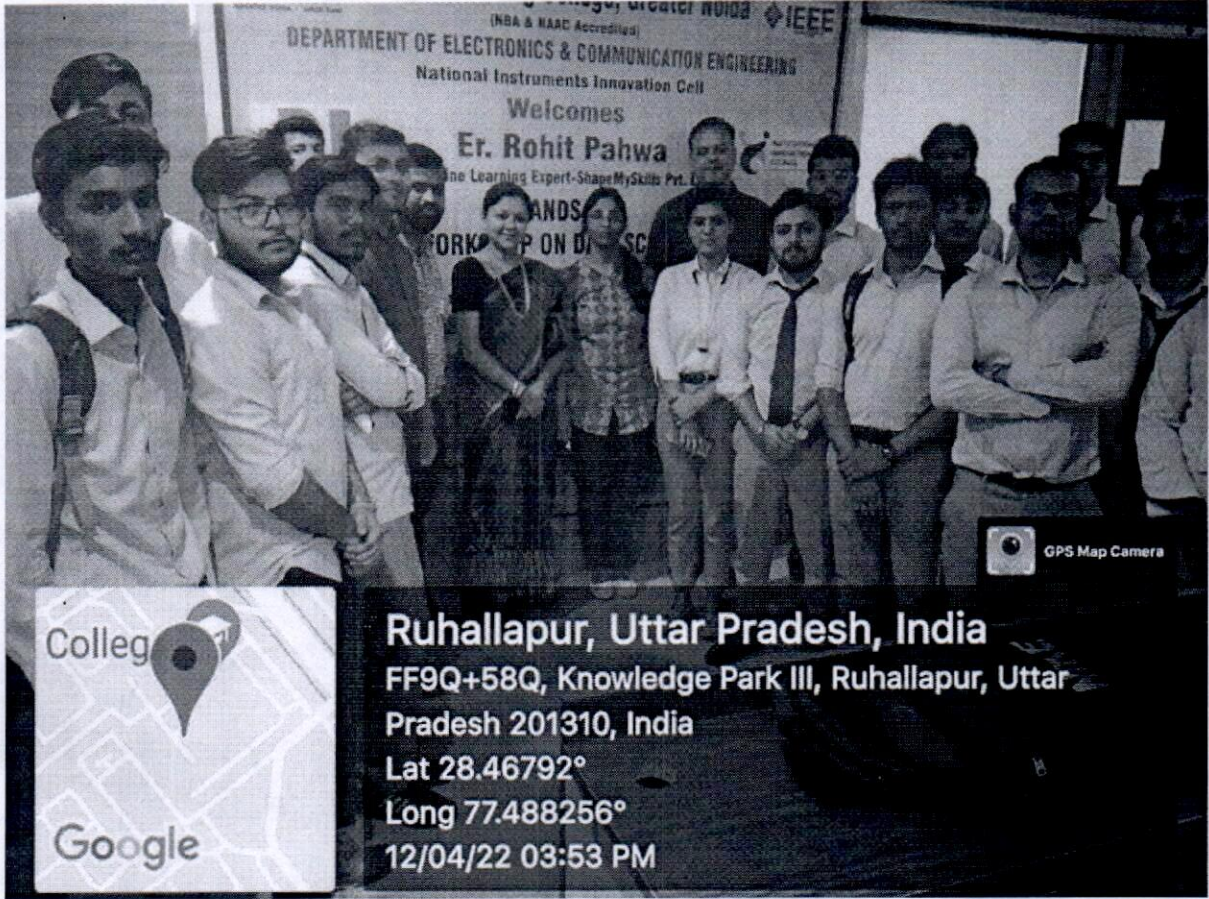
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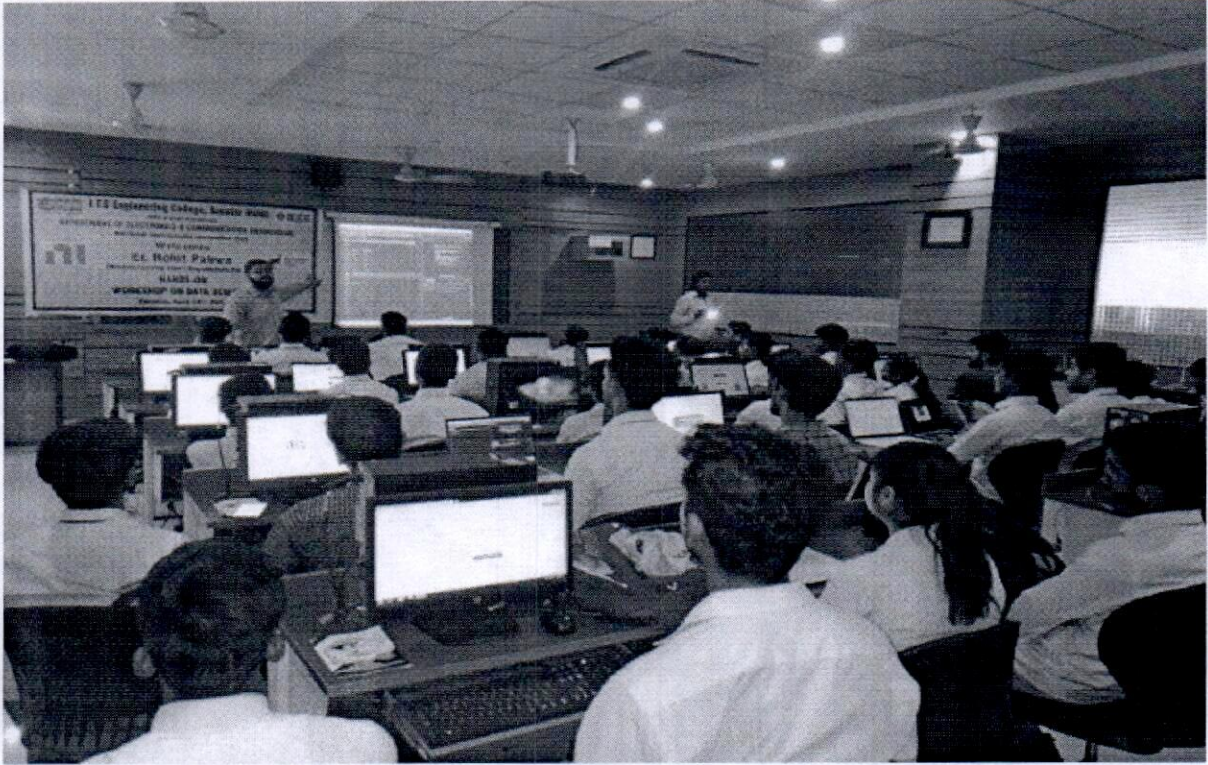
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Some Pictures:



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Work Report on Radio Day

Name of the Event: Workshop on “Application of IOT and AI in Radio Technology”

Date of the Event: 15th February, Tuesday, 2022

Organized by: Electronics and Communication Engineering Department &(e-YANTRA)

Speaker: Mr. Atul Mishra, Senior Technical Expert, Centum Learning Ltd.

Venue of the Conference: Naidu Hall

Participants: B.Tech & MBA Students

No. of Participants: 60

Objective of the Workshop-

Following were the objectives of the workshop:

- To stimulate how students can develop right set of skills for experimental learning with real time projects using IOT.
- Promote the significance of IOT and AI technology and inculcate required skill set of IOT and AI technology in young graduate.

Report:

Institution's Innovation Council (IIC), Electronic & Communication Engineering Department of ITS Engineering College organized a One Day Workshop on “**Application of IOT and AI in Radio Technology**” on radio day for the students of BTech & MBA students on **Tuesday, February 15th, 2022**. The resource person for the workshop was Mr. Atul Mishra, Senior Technical Expert, Centum Learning Ltd.

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Mr. Atul Mishra has more than 10 years' experience in the Centum Learning Ltd. His wide array of experience includes working with AI, IOT and Telecommunication companies. Artificial Intelligence (AI) and Internet of Things (IOT) are the emerging technologies now days used in everywhere. During the workshop, the speaker talked about the various aspects of AI and IOT linked to industries where the students can get the opportunity to work. The convergence of AI (Artificial Intelligence) and IoT can redefine the way industries, business, and economies functions. AI enabled IoT creates intelligent machines that simulate smart behavior and supports in decision making with little or no human interference. Several businesses have already adopted AI and IoT as part of their processes and products.

He also shared about their unique skilling program designed for students at **Centum Pvt Ltd** to get a learner skilled at their doorstep through online learning mode. The students are provided with DIY kit in this program in which they can build and learn their skills hands on projects.

Speaker highlighted benefits of AI Enabled IoT

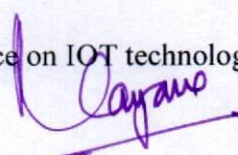
- Triggering New and Enhanced Products & Services using the AI and IOT
- Better Risks Management
- Increase IoT Scalability

The workshop witnessed the active participation of around 60 students from various branches of B.Tech and MBA along with Faculty Members. The workshop was concluded with a Q&A session.

Learning Outcome

The entire workshop was very interactive and interesting. Some of the notable outcomes of the session were:

- Radio Day was celebrated by the ECE Department via this workshop.
- Students learns how the AI and IOT technology together reduce the interference of human being in decision-making.
- The Centum Pvt Ltd. provided students with the hand on experience on IOT technology.



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- Students gets the opportunity to understand various aspects of AI and IOT technology related to industries.

Conclusion

In brief, the programme was very interesting for the entire audience and provided a great learning experience to all the participants. A total of 60 students and 7 faculty members attended the workshop.

Social Media Postings of the event

Facebook:

<https://www.facebook.com/ITSengggn/photos/a.131241866977472/4278431218925162/>

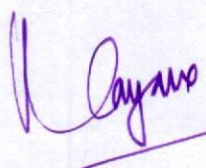
Twitter: <https://twitter.com/ITSEngggn/status/1493500146260185095/photo/1>

Linkedin: https://www.linkedin.com/posts/itsengggn_iic-workshop-btech-activity-6899265237686837250-tc9W

Instagram: https://www.instagram.com/p/CZ_a1KNjWtC/

Google


: <https://local.google.com/place?id=11010943153743415673&use=posts&lpsid=CIHM0ogKEICAgIDm9veOEQ>




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MoE's INNOVATION CELL (GOVERNMENT OF INDIA) | **ITS ENGINEERING COLLEGE** GREATER NOIDA SINCE 2006 | ANTE | INSTITUTION'S INNOVATION COUNCIL (Ministry of Skill Development & Entrepreneurship) | IEEE

**INSTITUTE INNOVATION COUNCIL
ITS ENGINEERING COLLEGE
GREATER NOIDA**
organizes
One Day Workshop
on
"Application of IOT & AI in Radio Technology"

 **Mr. Atul Mishra**
Senior Technical Expert,
Centum Learning Ltd.

 **TUESDAY**
15th Feb 2022

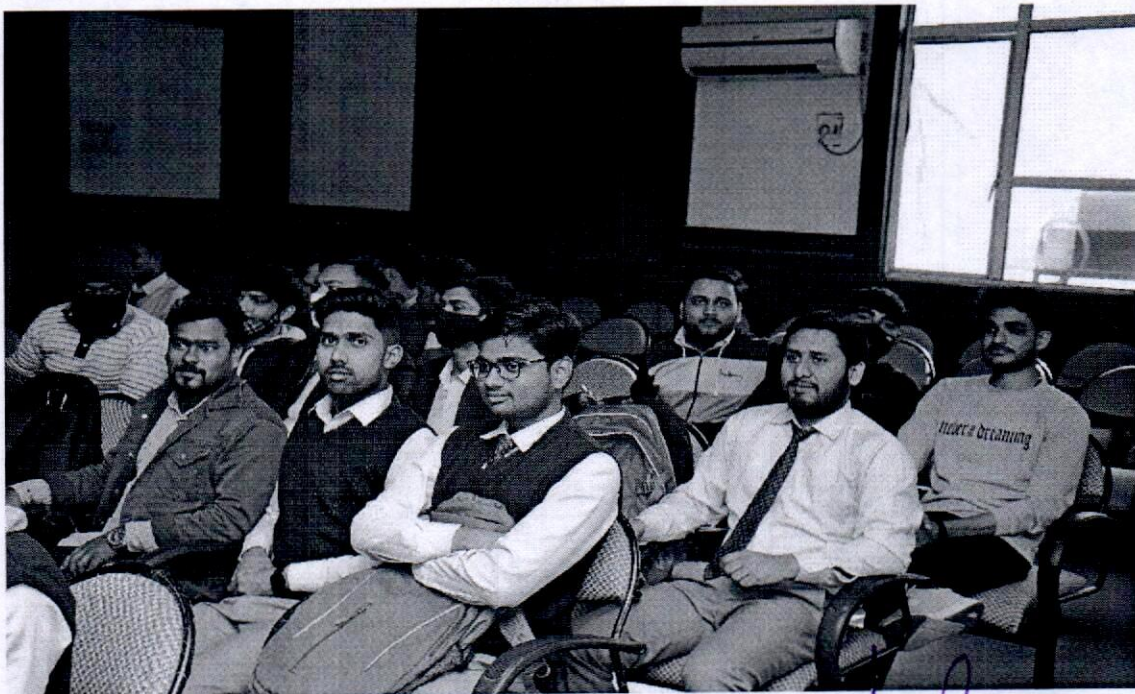
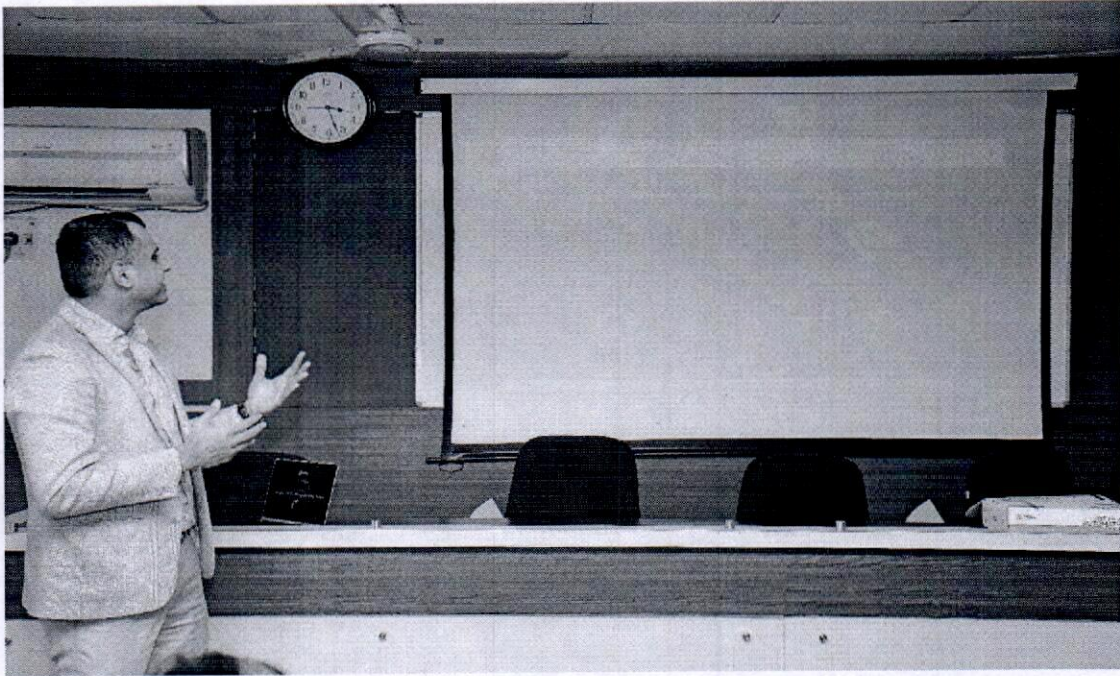
Department of Electronics and Communication Engineering

  www.itsengg.edu.in



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Student Attended the Workshop

Attendance Sheet						
Date	15/feb/2022		Technology	IOT		
College/University Name	I.T.S. College.					
Sr. No.	Full Name	Mobile Number	Whatsapp Number	E-Mail I'd	Branch	Year
1	Vikas Verma	7011817328	7011817328	Vikasv91221@gmail.com	CSE	2nd
2	Nitish Pandey	8081300767	8081300767	SP6267633@gmail.com	CSE	2nd
3	Himanshu Singh	9897188816	9897188816	himanshu894@gmail.com	CSE	2nd
4	Diyanshu Pathak	9910054162	9910054162	diyanshupathak2003@gmail.com	CSE	2nd
5	Saurav Kumar Singh	6386545668	6386545668	Singhsaurav737634@gmail.com	CSE	2nd
6	Utsav Singh	9369383087	9369383087	utsavsinghpkc_cse20@its.edu.in	CSE	2nd
7	Nikhil Sharma	8791330974	8791330974	Nikhilsharma8513020@gmail.com	CSE	2nd
8	Vijay Kumar	6202461181	6202461181	Vijaykumar41_cse20@its.edu.in	CSE	2nd
9	Ashish Mishra	8448248221	8448248221	ashishmishra44m-cse20@its.edu.in	CSE	2nd
10	Urvashi Sharma	7417069005	7417069005	Urvashisharma983@gmail.com	CSE	2nd
11	Ayush Goel	9560496617	9560496617	ayushgoel3388@gmail.com	CSE	2nd
12	Sachin Kumar Gautam	8744991899	8744991899	Sachinraj1@gmail.com	CSE	2nd
13	Ashish Kumar	7678110009	7678110009	9512akish@gmail.com	CSE	2nd
14	Deepthi Sharma	9667482492	9667482492	deepthisharmahs_cse20@gmail.com	CSE	2nd
15	Garvit Jain	9891383864	9891383864	garvitjainsej_cse20@its.edu.in	CSE	2nd
16	Umesh Kumar	9317345953	9317345953	Umeshkumar100@its.edu.in	CSE	2nd
17	Neha	6998193125	6675801318	neha1001@gmail.com	CSE	2nd
18	Yuvraj Kumar Singh	7005693601	7005693601	Yuvraj1008@gmail.com	CSE	2nd
19						
20						
21						

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Attendance Sheet

Date			Technology			
College/University Name						
Sr. No.	Full Name	Mobile Number	Whatsapp Number	E-Mail Id	Branch	Year
1	Manish Kumar	7004361119	7004361119	m.kumar321321@gmail.com	Civil	3 rd
2	Rainish Mishra	7321995219	7321995219	Rainish.mishra5319@gmail.com	Civil	3 rd
3	Gudhakar Mishra	87081960903	87081960903	Gudhakar.mishra708@gmail.com	CE	2 nd
4	Kuldeep Kumar Varun	9760807894	9760807894	Kuldeepvarun77@gmail.com	CE	1 st
5	Aditya Prakash Chauhan	9970142110	9970142110	apc.316780@gmail.com	CE	1 st
6	Gaurav Maurya	9416663941	8795975146	gauravmaurya0908@gmail.com	CE	1 st
7	Dyograt Singh	8318999051	8318999051	dyogratyongrat@gmail.com	CE	1 st
8						
9						
10						

Date			Technology			
College/University Name						
Sr. No.	Full Name	Mobile Number	Whatsapp Number	E-Mail Id	Branch	Year
1	Ujjwal Kumar	6289193156	—	Kumar.ujjwal.628136@gmail.com	Civil	1 st
2	Praveen Kumar Singh	6392515568	6392515568	Praveen280920@gmail.com	Civil	3 rd
3	Abdullah	895151574050	—	Abdullahkhan895151574050@gmail.com	Civil	3 rd
4	Adarsh Kumar Kishora	8076667062	=	adarshk211@gmail.com		2 nd
5	Abhishek Sharma	7668628096	=	abhishek.shar.95@gmail.com		2 nd
6	Shalokh Kapil	9957429191	=	Shalokh.441@gmail.com		2 nd
7	Sunaj Kumar	8868250460	=	Sunajkubal10@gmail.com		2 nd
8	MADIYA FAYAZ	9149955078	-	madhya.fayaz.9916@gmail.com	CE	2 nd
9	SHAFIA NAZIR	9682664611	-	Shafia.nazir.786@gmail.com	CE	3 rd
10						
11						

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Sr. No.	Full Name	Mobile Number	Whatsapp Number	E-Mail Id	Branch	Year
1	Vijal Kumar	6287173156	—	Kumar.vijal.620136@gmail.com	Civil	3rd
2	Praveen Kumar Singh	6392515568	6392515568	Praveen280920@gmail.com	Civil	3rd
3	Abdullah	8851574050	—	Abdullahkhan880970@gmail.com	Civil	3rd
4	Adarsh Kumar Kishra	8076667062	=	adashm211@gmail.com		2nd
5	Abhishek Sharma	2668628046	=	abhishek.shar.95@gmail.com		2nd
6	Shalabh Kapil	9957429131	=	shalabh441@gmail.com		2nd
7	Sunaj Kumar	8868250460	=	Sunajdubal10@gmail.com		2nd
8	MADIYA FAYAZ	9149955078	-	madryafayaz941@gmail.com	CE	2nd
9	SHAFIA NAZIR	9682664611	-	Shafia.nazir786@gmail.com	CE	3rd
10	M.D. Admir	6200205163	=	mdadmir@ce-ise@its.edu.in	CSE	2nd
11	Yuvraj Singh	8081542773	-	Yuvrajyphis-CSE@its.edu.in	CSE	2nd
12	Kamran Akhtar	9936047025	-	Kamranakhtar@ce-ise@its.edu.in	CE	2nd
13	Shubham Prasad	9431261385	—	Shubhamprasad@ce-ise@its.edu.in	CE	3rd
14	Akhil Singh	9990227112	-	Singhaman1979@gmail.com	CSE	2nd
15						
16						

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Name of Event: 6 Week online Internship on Machine Learning with Python

Date of Event: 19 Jan'22 - 10 Mar' 22

Organized by: National Instruments Innovation Centre, Department of ECE

Event Coordinator: Mr. Prabhakar Sharma (Assistant Professor- Department of Electronics & Communication Engineering)

Objective: Online Internship on Machine Learning with Python.

Report:

The Department of Electronics and Communication Engineering of I.T.S Engineering College, Greater Noida, organized 6 Week online Internship on Machine Learning with Python Program. National Instruments Innovation Centre, Department of ECE started the 06-week internship on Machine Learning with Python on 19th Jan' 2022. The internship started with onboarding of the candidates. The training was hosted by Mr. Praveer Saxena. Mr. Saxena first explained about the importance of machine learning and how its revolutionizing our lives. He also introduced different machine learning techniques and explained why Python is the preferred language for designing Machine Learning Solutions. He guided about how to install required software. In the last he discussed about the curriculum and projects to be done in internship. This program is coordinated by Mr. Prabhakar Sharma (Assistant Professor- Department of ECE).

Outcomes:

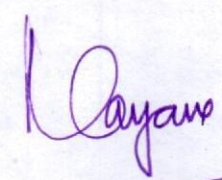
During this Internship Program, the focus will be to train the interns in the field of Machine Learning as there is a huge demand for skilled Machine Learning /Artificial Intelligence Engineers. The interns will be trained on state of art Machine Learning Algorithms along with different optimization techniques. Besides receiving the training, the interns will have the opportunity to work on several Machine Learning projects covering classifications, regression and web scraping problems.

Course Details:

During this program following aspects will be covered

Module 1: Python for data science/ machine learning crash course

- Data Types
- Comparison Operators
- If, elif and else statements
- For Loop
- While Loop
- Functions
- Lambda Expressions
- List Comprehension
- Map and Filter



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Module 2: Data Analysis :NumPy and Pandas

- Introduction to NumPy
- NumPy Arrays
- NumPy Array Indexing
- NumPy operations
- Introduction to Pandas
- Series
- DataFrames
- Missing values and Treatment
- Groupby
- Merging, Joining and Concatenation
- Data Input and Output

·Project on DATA ANALYSIS USING PANDAS

Module 3: Exploratory Data Analysis

- What is EDA? Why it is a very important Step?
- Introduction to Data Visualization
- Hands on Matplotlib
- Hands on Seaborn
- Different types of visualizations and their typical use cases

Module 4: Machine Learning

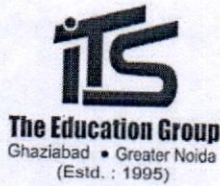
- Introduction to Machine Learning
- Supervised, Unsupervised and Semi supervised Machine Learning
- Data Pre-processing
- Regression vs classification
- Build your first machine learning Model: K Nearest Neighbour(KNN)
- Build your second machine learning Model: Naïve Bayes
- Regression ML Models
- Linear Regression and other regression models
- Evaluating Regression Models: Performance metrics
- Concept of Overfitting, Underfitting
- Bias Variance Trade-off
- Ensemble Learning

Program Outline:

- Python Programming, Data Analysis using Python, Exploratory Data Analysis, Data Visualization using Matplotlib, Seaborn,
- Supervised Machine Learning,
- Unsupervised Machine Learning,
- Bias-Variance Trade OFF,
- Ensemble Learning,
- Hyper Parameter Tunning

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Registration Link: - <https://forms.gle/LsUzP8H5xXtqDJSM9>

On-line Lecture Link: Join Zoom Meeting

<https://us02web.zoom.us/j/89393130057?pwd=NHdJU3pSaHpyMmpmOE5LWnRhV3JSZz09>

Meeting ID: 892 4059 5781

Passcode: 655845

No. of Students attended: 11

Faculty attended: 01

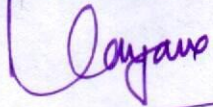
Timing: 6:30 PM to 8:00 PM

Template:

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NATIONAL INSTRUMENTS
INNOVATION CENTRE

**NATIONAL INSTRUMENTS
INNOVATION CENTRE**
06 Weeks Internship on
**Machine Learning
with Python**
15 Jan 2022 - 28 Feb 2022
Training by
Experts from Academia and
Industry
Coordinated by
Mr. Prabhakar Sharma (AP-ECE)
Mr. Parveen Bholra (AP-EEE)

Coordinators
(Mr. Prabhakar Sharma)

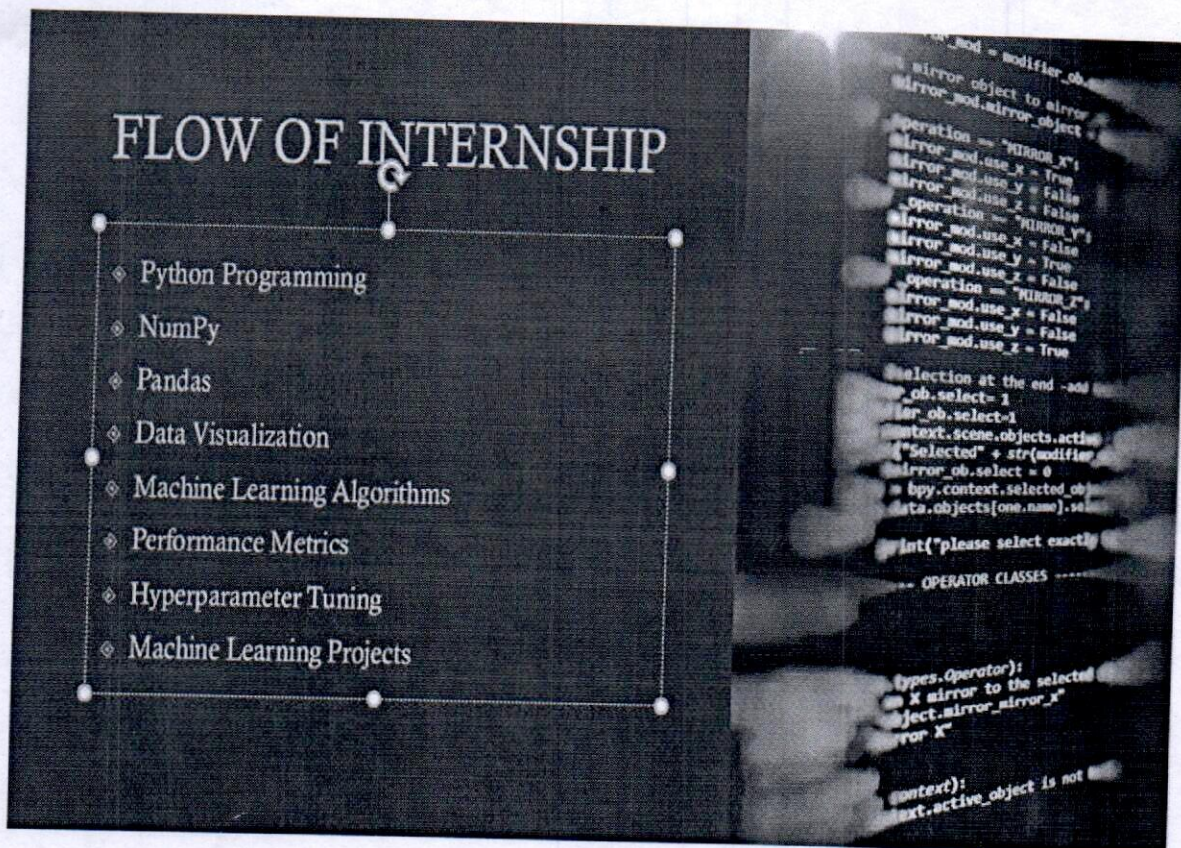

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List of students:

S.No.	Participant Name	Certificate Number
1	ADEEB KHAN	NIIC/COE/SI/0322-ML001
2	ANUSHREE BHUI	NIIC/COE/SI/0322-ML002
3	GOVIND KUMAR JHA	NIIC/COE/SI/0322-ML003
4	MD ADIL HUSSAIN	NIIC/COE/SI/0322-ML004
5	MD ARKAM	NIIC/COE/SI/0322-ML005
6	MOHD MUDASSIR	NIIC/COE/SI/0322-ML006
7	AYUSH PATEL	NIIC/COE/SI/0322-ML007
8	PIYUSH BHARDWAJ	NIIC/COE/SI/0322-ML008
9	SACHIN KUMAR SINGH	NIIC/COE/SI/0322-ML009
10	SAUMYA TIWARI	NIIC/COE/SI/0322-ML010
11	SHIVAM RAJPOOT	NIIC/COE/SI/0322-ML011

Online Training Pictures:



copy

K. Jayaram
Director
ITS Engineering College
Greater Noida

Jupyter PANDAS DAY-2 23 FEB Last Checkpoint an hour ago (unsaved changes)

```
In [24]: df.head()
Out[24]:
```

	Survived	Pclass	Name	Sex	Age	Siblings/Spouses Aboard	Parents/Children Aboard	Fare
0	0	3	Mr. Owen Harris Braund	male	22.0	1	0	7.2500
1	1	1	Mrs. John Bradley (Florence Briggs Thayer) Cum...	female	38.0	1	0	71.2833
2	1	3	Miss. Laura Heikkinen	female	26.0	0	0	7.9250
3	1	1	Mrs. Jacques Heath (Lily May Peel) Futrelle	female	35.0	1	0	53.1000
4	0	3	Mr. William Henry Allen	male	35.0	0	0	8.0500

```
In [25]: df["Pclass"].unique()
Out[25]: array([3, 1, 2], dtype=int64)

In [26]: len(df["Pclass"].unique())
Out[26]: 3
```

Untitled15.ipynb

```
[10] from google.colab import files
files.upload()
```

Choose Files bigmartsales.csv

- bigmartsales.csv(application/vnd.ms-excel) - 869535 bytes, last modified: 10/21/2021 - 100% done

Saving bigmartsales.csv to bigmartsales.csv

```
['bigmartsales.csv': b'Item_Identifier,Item_Weight,Item_Fat_Content,Item_Visibility,It...
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0.4003

0.4003 / 1.01.26

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The screenshot shows a Jupyter Notebook with the following content:

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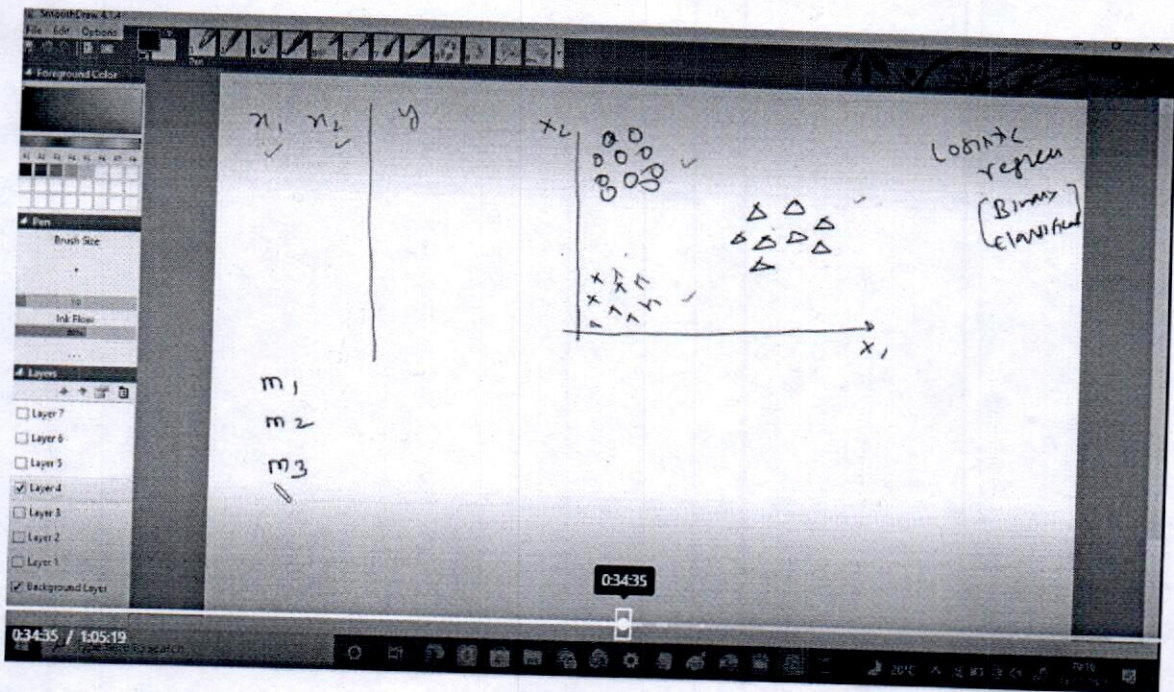
out[94]:
reg.
0
1
2
3

CUSTOMER TABLE
CID  CNAME  MOBILE ADDRESS
1    PRAVEER 87XX  AGRA
2    UTKARSH 456XX LUCK
3    MEENA   7623  NOIDA

DATE TABLE
DATE
24 FEB 2022
25 FEB 2023
26 FEB 2023

log.
0
1
2
3

FACT TABLE
DATEID  CID
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Name of Event: Workshop on Hardware Design using HDL & FPGA

Date of Event: 10th December, 2021.

Time: 1:00- 4:30 PM.

Organized by: E.C.E Department, ITS Engineering College.& e-YANTRA

Event Coordinator: Mr. Prabhakar Sharma (Assistant Professor- ECE Department)

Report: One day Workshop on Hardware Design using HDL & FPGA is organized by Electronics & Communication Engineering department. Workshop began by felicitation of Mr. Vaibhava Mishra (Owner of Pine Training Academy- Training division of AUJUS Technology). Mr. Mishra explained about the history of VLSI and embedded system from 1960 onwards. He also explained the scope and importance of VLSI Technology in India and international level in various companies. He also explained the various topics of VLSI with clarification in workshop.

In Last he explained various training programs offered by pine academy on VLSI Technology with 100% placement assistant.

Event Objective:

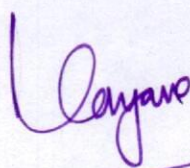
1. To understand the scope and importance of VLSI Technology in current information technology scenario.
2. To understand various current topic on VLSI.
3. Awareness about various training programs on VLSI.

Program Outcome: Students gained information about various aspects of VLSI Technology.

Program attendance:

Students- 35 (2nd year, 3rd year and 4th year ECE)




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Department of Electronics and Communication

Teacher – 08 (ECE Faculties and Staff)

Faculty Coordinator
Prof. Prabhakar Sharma
(AP-ECE Department)

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I.T.S Engineering College, Greater Noida
(NBA & NAAC Accredited)

Welcomes
Mr. Vaibhava Mishra
(Pine Training Academy-Training division of Aujus Technology)

WORKSHOP ON
HARDWARE DESIGN USING HDL & FPGA
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
Friday, December 10th, 2021

IEEE

Tech DAY

INSTITUTION'S INNOVATION COUNCIL
Division of IITD Industries

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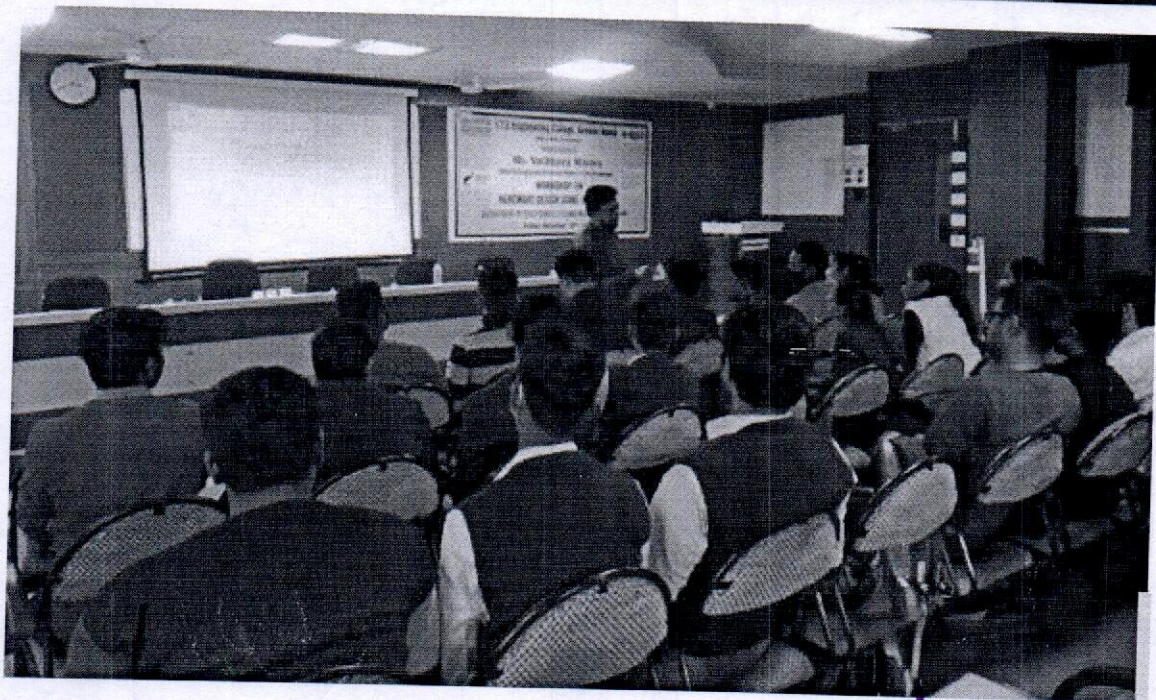
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Department of Electronics and Communication



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Department of Electronics and Communication



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Name of Event: 6 Week online Internship on Machine Learning with python

Date of Event: 01 Nov' 21 – 12 Dec' 21

Organized by: National Instruments Innovation Centre, Department of ECE

Event Coordinator: Mr. Prabhakar Sharma (Assistant Professor- Department of Electronics & Communication Engineering) and Mr. Parveen Bhola (Assistant Professor- Department of Electrical & Electronics Engineering),

Objective: Online Internship on Machine Learning with Python.

Report:

The Department of Electronics and Communication Engineering of I.T.S Engineering College, Greater Noida, organized 6 Week online Internship on Machine Learning with Python Program. National Instruments Innovation Centre, Department of ECE started the 06-week internship on Machine Learning with Python on 1st November 2021. The internship started with on boarding of the candidates. The training was hosted by Mr. Praveer Saxena. Mr. Saxena first explained about the importance of machine learning and how its revolutionizing our lives. He also introduced different machine learning techniques and explained why Python is the preferred language for designing Machine Learning Solutions. He guided about how to install required software. In the last he discussed about the curriculum and projects to be done in internship.

This program is coordinated by Mr. Prabhakar Sharma (Assistant Professor- Department of ECE) & Mr. Parveen Bhola (Assistant Professor- Department of EEE)- ITS Engineering College-Greater Noida.

Outcomes:

During this Internship Program, the focus will be to train the interns in the field of Machine Learning as there is a huge demand for skilled Machine Learning /Artificial Intelligence Engineers. The interns will be trained on state of art Machine Learning Algorithms along with different optimization techniques. Besides receiving the training, the interns will have the opportunity to work on several Machine Learning projects covering classifications, regression and web scraping problems.

Course Details:

During this program following aspects will be covered

Module 1: Python for data science/ machine learning crash course

- Data Types
- Comparison Operators
- If, elif and else statements
- For Loop
- While Loop

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- Functions
- Lambda Expressions
- List Comprehension
- Map and Filter

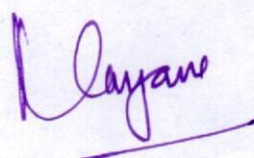
Module 2: Data Analysis :NumPy and Pandas

- Introduction to NumPy
- NumPy Arrays
- NumPy Array Indexing
- NumPy operations
- Introduction to Pandas
- Series
- DataFrames
- Missing values and Treatment
- Groupby
- Merging, Joining and Concatenation
- Data Input and Output
- **Project on DATA ANALYSIS USING PANDAS**

Module 3: Exploratory Data Analysis

- What is EDA? Why it is a very important Step?
- Introduction to Data Visualization
- Hands on Matplotlib
- Hands on Seaborn




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- Different types of visualizations and their typical use cases

Module 4: Machine Learning

- Introduction to Machine Learning
- Supervised, Unsupervised and Semi supervised Machine Learning
- Data Pre-processing
- Regression vs classification
- Build your first machine learning Model: K Nearest Neighbour(KNN)
- Build your second machine learning Model: Naïve Bayes
- Regression ML Models
- Linear Regression and other regression models
- Evaluating Regression Models: Performance metrics
- Concept of Overfitting, Underfitting
- Bias Variance Trade-off
- Ensemble Learning

Program Outline:

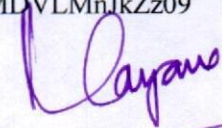
- Python Programming, Data Analysis using Python, Exploratory Data Analysis, Data Visualization using Matplotlib, Seaborn,
- Supervised Machine Learning,
- Unsupervised Machine Learning,
- Bias-Variance Trade OFF,
- Ensemble Learning,
- Hyper Parameter Tuning

Registration Link: - <https://forms.gle/LsUzP8H5xXtqDJSM9>

Online Platform: Zoom

On-line Lecture Link: Join Zoom Meeting

<https://us02web.zoom.us/j/89240595781?pwd=SlhhZGw2ZDYvdjZwSUU4MDVLMnJkZz09>
Meeting ID: 892 4059 5781


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Passcode: 655845

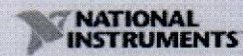
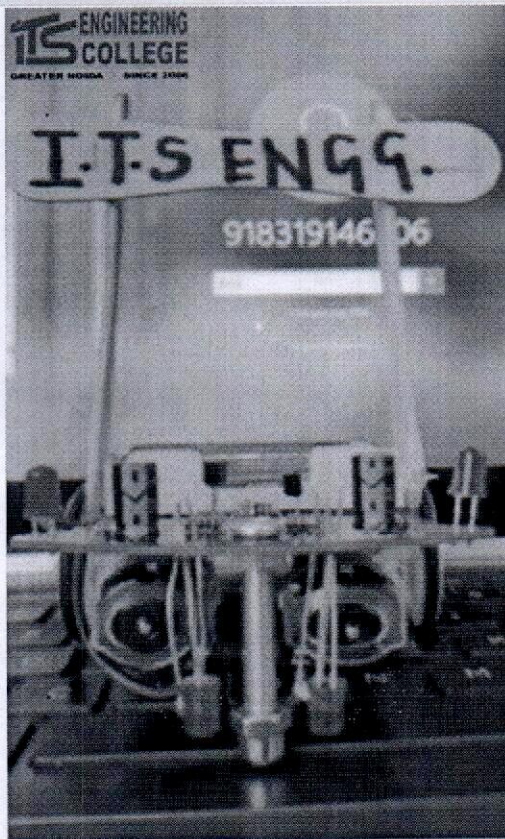
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No. of Students attended: 13

Faculty attended: 02

Timing: 6:30 PM to 7:45 PM

Template:



**NATIONAL INSTRUMENTS
INNOVATION CENTRE**
06 Weeks Internship on
**Machine Learning
with Python**

01 Nov 2021 - 12 Dec 2021

**Training by
Experts from Academia and
Industry**

Coordinated by
Mr. Prabhakar Sharma (AP-ECE)
Mr. Parveen Bhola (AP-EEE)

**Coordinators
(Mr. Prabhakar Sharma)**

(Mr. Parveen Bhola)

**Director
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List of students :

S.No.	Participant Name	Mail Id	Mobile No.
1	Abhay Purwar	abhaymp_ece18@its.edu.in	9169437769
2	Akanksha Mishra	mishraakanksha255@gmail.com	8429817442
3	Ankita pandey	9540ankita@gmail.com	9818639575
4	Anshit Malik	anshitmalik5833@gmail.com	7906167709
5	MD shahrukh Amber	Shahrukhambermk_ece18@its.edu.in	8083372242
6	Mohd Shakaib Ghazi	Mohdshakaibghazimrg_ece18@its.edu.in	7417122079
7	Musadiq Sadeeq	musadiqsadeeqece18@its.edu.in	7780838289
8	Prabhakar kumar	Prabhakarchaudhary93@gmail.com	7258039264
9	Pradumn Dubey	pradumndubeyvsd_ece18@its.edu.in	8707890871
10	Rakshit Tiwari	rakshittiwariat_ece18@its.edu.in	8383970859
11	Shiva Ashish	sshivaashish@gmail.com	7764006744
12	Soumen Hembram	soumenhembramsh_ece18@its.edu.in	9643914144
13	Vivek kumar	Vivekkumarss_ece18@its.edu.in	7340239533

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localhost:8888/notebooks/Untitled17.ipynb?kernel_name=python3

jupyter Untitled17 Last Checkpoint: 7 minutes ago (unsaved changes) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Welcome to Machine Learning Internship DAY1

- Attend the classes regularly
- Submit all the task through github
- No plagiarism should be there

```
In [2]: def add(a,b):
        return a+b

In [ ]: add()
```

```
In [1]: print("hello word")
        hello word

In [ ]:
```

colab.research.google.com/drive/1RL...?usp=sharing

Untitled13.ipynb Comment Share

File Edit View Insert Runtime Tools Help

+ Code + Text

[1] from google.colab imp... files.upload()

Choose Files No file cho...

Local Disk (C:) Users dell

Name	Date modified	Type
.condarc	22-10-2021 12:02	CONDARC File
01st Nov.ipynb	01-11-2021 18:29	IPYNB File
06-Combining-DataFrames.ipynb	15-10-2021 16:15	IPYNB File
7_Spam-Classification.ipynb	15-09-2021 12:51	IPYNB File
08-Time-Methods.ipynb	15-10-2021 13:56	IPYNB File
30_Startups	31-08-2016 08:48	Microsoft Ex...
A2		Type: Microsoft Excel Contents Separated/Master File Size: 237 KB Date modified: 21-08-2016 08:48
Advanced Matplotlib Concepts.ipynb		IPYNB File
Assignment Cardiovascular Disease Detec...	14-09-2021 19:25	IPYNB File
Assignment-1_Convolutional_Neural_Ne...	20-09-2021 21:30	IPYNB File
ASSIGNMENT-2 PART-TWEE-SCRAPING...	18-09-2021 10:49	IPYNB File
Bagging and Boosting Demo.ipynb	30-10-2021 12:06	IPYNB File

File name: All Files Open Cancel

Executing (206) Cell > upload() > eval_is() > read_reply_from_input()

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```
In [ ]: keys are immutable (create keys with immutable data types) and values are mutable

In [1]: d = {"mango":50,"apple":100,"orange":40}

In [2]: d
Out[2]: {'mango': 50, 'apple': 100, 'orange': 40}

In [3]: d1 = {"x": 1, "y": "praveer", "z": [1,2,3], "w": (1,2,3)}

In [4]: d1
Out[4]: {'x': 1, 'y': 'praveer', 'z': [1, 2, 3], 'w': (1, 2, 3)}

In [ ]: d2 = | I

In [ ]:
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Work Report

Name of Event: Expert Talk (Online Mode) on "Automation in Power System Operation and Control".

Date of Event: 07th October, 2020.

Organized by: Rockwell Automation- Centre of Excellence, EEE Department, I T S Engineering College Greater Noida.

Event Coordinator: Mr. Rajiv Ranjan

Objective:

- To enhance the skill of students & faculty members in the field of **Automation in Power System Operation and Control**.

Report:

Rockwell Automation- Centre of Excellence, Department of Electrical & Electronics Engineering, I.T.S. Engineering College organized Expert Talk on Automation in **Power System Operation and Control** on 07th October, 2020.. The talk was delivered by **Mr. Guru Sharan Singh, Assistant Professor, Electrical Engineering Department, Rajkiya Engineering College (REC), Banda U.P. (Government College)**.. The event was started with welcome address by Prof. Upendra K. Agarwal, HOD, EEE department, I.T. S. Engineering College, Greater Noida..

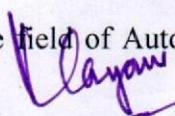
Mr. Singh had discussed about the past, the present and the future of Automation in **Power System Operation and Control**. He explained that an electric power system is a network of electrical components deployed to supply, transfer, and use electric power. Power system operation and control is an important segment in electrical engineering which deals with the efficient, economical and reliable operation of different components of the power system to meet the continually changing load demand for active and reactive power.

Finally, the event coordinator, Mr. Rajiv Ranjan, Assistant Professor of EEE Department, ITS Engineering College, gave a Vote of Thanks to all participants and the guest.

This talk was very helpful to the students who want to make their career in Automation industry and the faculty members who are guiding the student's research & projects in automation.

Program Outcome:

- Students & Faculty members upgraded their knowledge in the field of Automation in power Industries.



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Scope of Improvement: To organize the workshop for long duration.


No. of participants: 32 students and 7 faculty members.

Coordinator:

(Rajiv Ranjan)

Asst. Prof.

EEE Dept.



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Expert Lecture
ON


Automation in Power System Operation & Control

Wednesday Date- 7 October 2020 Time- 10.10-11.00 AM

ORGANISED BY
Department of Electrical and Electronics Engineering

Zoom Link-<https://us02web.zoom.us/j/3451549672?pwd=cDBhL0VhUmJWZXI4OFh1bUJ5UkVQdz09>

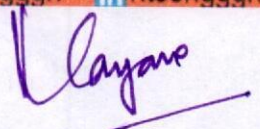
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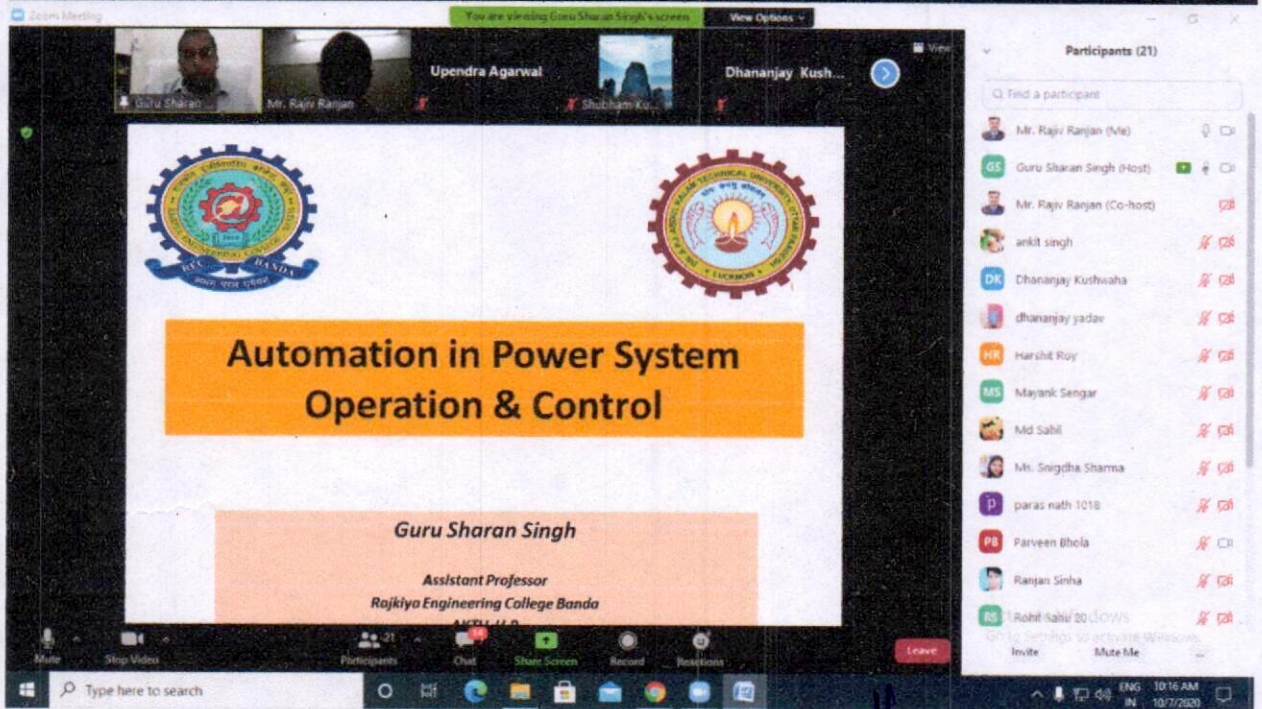
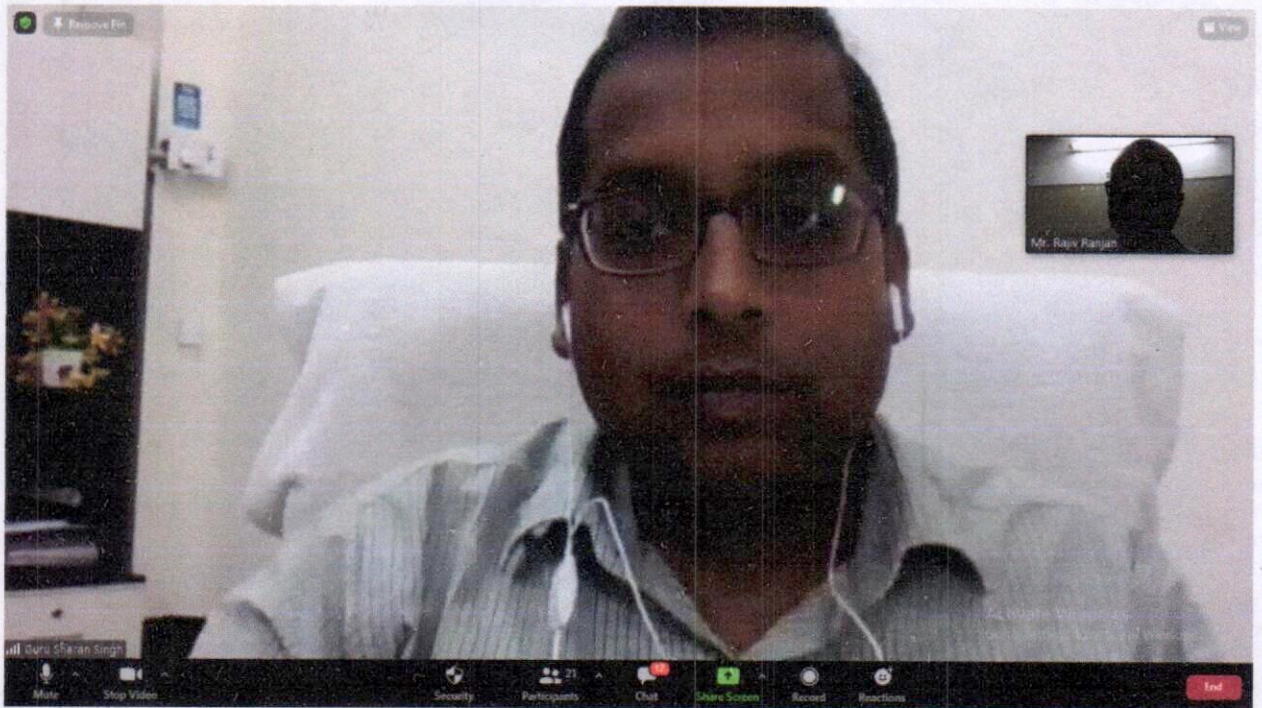


Mr. Guru Sharan Singh
Assistant Professor(EE)
Rajkiya Engineering College
Banda, Uttar Pradesh

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Zoom Meeting | You are viewing Guru Sharan Singh's screen | View Options

Participants (24)

- Mr. Rajiv Ranjan (Me)
- Guru Sharan Singh (Host)
- Mr. Rajiv Ranjan (Co-host)
- ankit singh
- Dhananjay Keshwaha
- dhananjay yadav
- Er Manish Pandey
- Harshit Roy
- Mayank Sengar
- MD Sahil
- Ms. Snigdha Sharma
- paras nath 1016
- Parveen Bihola
- Ranjeev Singh

Power System Layout

Color Key:
 Red: Generation
 Blue: Transmission
 Green: Distribution
 Black: Customer

Generating Station
 Generating Step Up Transformer

Transmission lines

Transmission Customer
 EHVAC: 800/765kV, 400kV, 220kV & 132kV
 HVDC: 500kV

Substation Step Down Transformer

Subtransmission Customer
 33 kV

Primary Customer
 11 kV/6.6 kV

Secondary Customer
 400 V

Zoom Meeting controls: Stop Video, Participants (24), Chat, Share Screen, Record, Raise Hand, Leave

Windows taskbar: Type here to search, ENG 10:21 AM IN 10/7/2020

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