DR. AKHILESH DAS GUPTA INSTITUTE OF TECHNOLOGY & MANAGEMENT,

NEW DELHI

Department of Computer Science & Engineering

Organized

NATIONAL LEVEL ONE WEEK FACULTY DEVELOPMENT PROGRAM

On

"Learn & Build an AI Application on Real Datasets"

Date: 22-27 November 2020

MODE: Online (Via Zoom)

Department of Computer Science & Engineering organized a National Level one week FDP (Online Mode). The resource person of FDP was Mr. Saurabh Bhardwaj, Founder & CEO TechieNest Pvt. Ltd. During his work experience, he headed many commercial, Govt funded, Engineering projects and events. Recently launched India's First Online Eco-System for Latest Techs, LnB (Learn and Build) to provide practical knowledge that industry needs in simplest and structured way possible.

Faculty members from different parts of the nation actively participated in the session. More than 250 participants registered to gain the insight of the FDP.

Topics Covered -

> What is an AI?

> What is Machine Learning & Deep Learning?

> Use of Various Categories of Algorithms of Machine Learning in Real Products.

> Software installation and basics of python and supporting libraries

> Artificial Neural Networks and its implementation in python

> Practical implementation Machine Learning Algorithm for an AI Application.

> Building an AI WebApp using ML Algo.

> Understanding various deployment methods for an app

> Deployment of an AI app using Python Flask

Tools Covered - Cloud, Flask, Machine Learning Algorithms, Neural Networks and Deep Learning with Python

The major outcomes of this programme were

> To build entire AI product life cycle from scratch
> Develop AI application
> Describe most advanced tools used in the IT industry currently
> Practical Hands-on AI Certification
> Analyze how the knowledge can be used for Research and Development

Day 1 - 22nd November 2021

> What is an AI ?
> What is Machine Learning & Deep Learning?
> Use of various categories of Algorithms of Machine Learning in Real Products.
> Software installation and basics of python and supporting libraries
> Python Programming

Day 2 - 23rd November 2021

> Introduction to Data Analysis
> Python Libraries for Data Computation and Visualisation
> Libraries Installation
> Working with Pandas and Matplotlib
> Data Visualisation on Real Datasets

Day 3 - 24th November 2021

> Introduction to Machine Learning and Algorithms
> Working with ANN
> Writing code for ANN using MLP classifier
> Introduction to Regression Algorithms
> Writing code for salary prediction of a fresher candidate after interview

Day 4 - 25th November 2021

> Introduction to Model Development
> Designing ML model and its testing using Python
> Introduction to Model Deployment
> What is Flask? Flask library installation
> Practical implementation of Machine Learning Algorithm for an AI Application
> Building an AI WebApp using ML Algo.
> Understanding various deployment methods for an app.
> Deployment of an AI app using Python Flask on local machine.

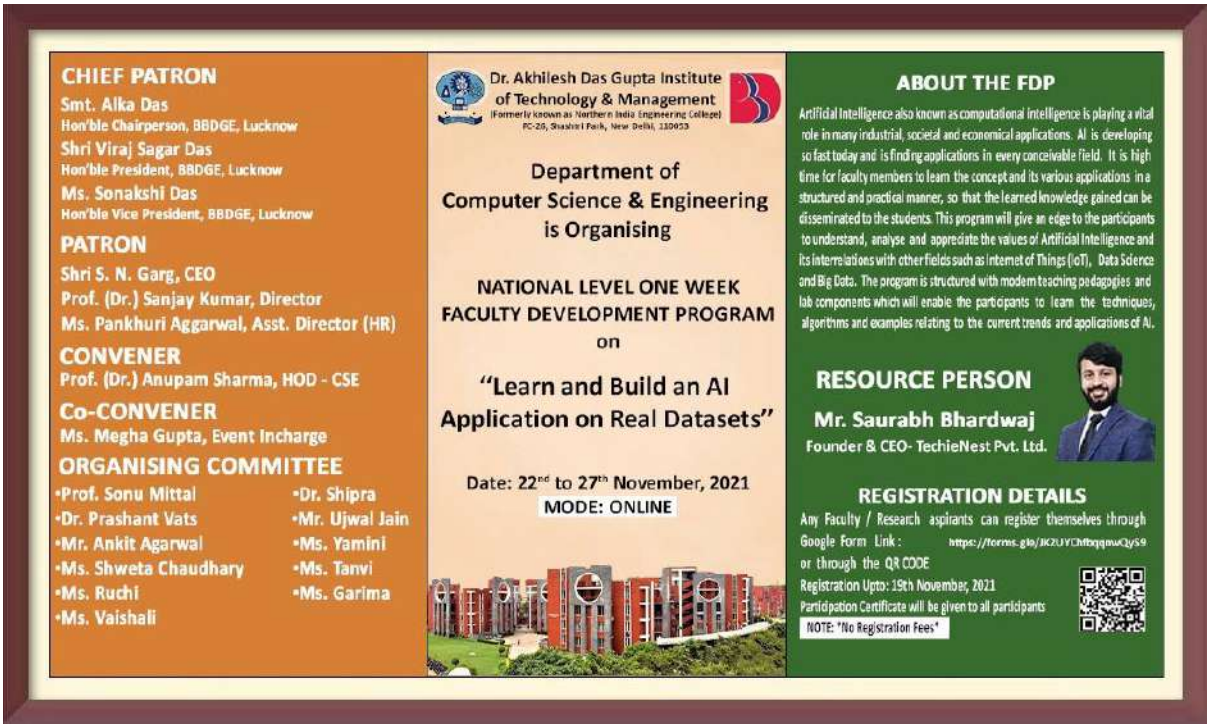
Day 5 - 26th November 2021

> Introduction to AWS/Azure Cloud and its services
> Creating instances for hosting AI application live on server
> Setting up our server for Live deployment
> Deployment of an AI app using Python Flask on Server

Project: - Design an AI web application for predicting results of a Machine Learning Model build upon an algorithm and deploy it using python flask.

Day 6 - 27th November 2021

> Evaluation test on Learn and Build Platform
> Certification of the Program


CHIEF PATRON
Smt. Alka Das
Hon'ble Chairperson, BBDGE, Lucknow
Shri Viraj Sagar Das
Hon'ble President, BBDGE, Lucknow
Ms. Sonakshi Das
Hon'ble Vice President, BBDGE, Lucknow
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Prof. (Dr.) Sanjay Kumar, Director
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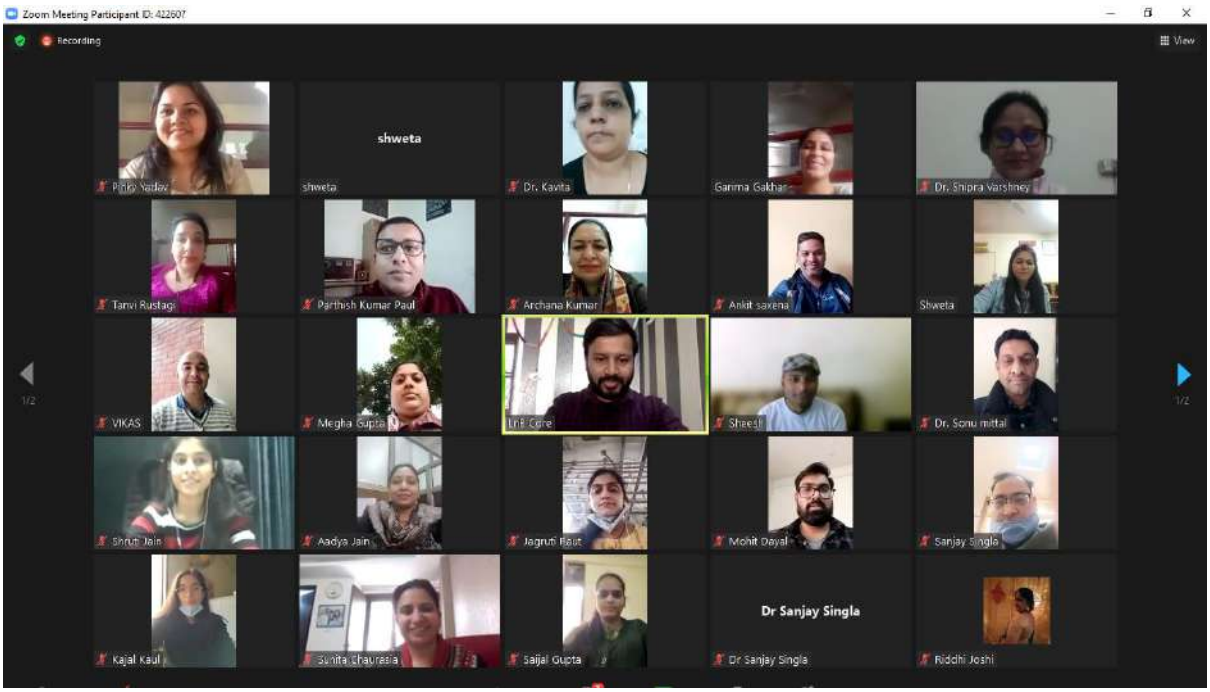
CONVENER
Prof. (Dr.) Anupam Sharma, HOD - CSE
Co-CONVENER
Ms. Megha Gupta, Event Incharge
ORGANISING COMMITTEE
•Prof. Sonu Mittal
•Dr. Prashant Vats
•Mr. Ankit Agarwal
•Ms. Shweta Chaudhary
•Ms. Ruchi
•Ms. Vaishali
•Dr. Shipra
•Mr. Ujwal Jain
•Ms. Yamini
•Ms. Tanvi
•Ms. Garima
Dr. Akhilesh Das Gupta Institute of Technology & Management
(Formerly known as Northern India Engineering College)
FC-26, Shastri Park, New Delhi, 110053
Department of Computer Science & Engineering is Organising
NATIONAL LEVEL ONE WEEK FACULTY DEVELOPMENT PROGRAM
on
"Learn and Build an AI Application on Real Datasets"
Date: 22nd to 27th November, 2021
MODE: ONLINE
ABOUT THE FDP
Artificial Intelligence also known as computational intelligence is playing a vital role in many industrial, societal and economical applications. AI is developing so fast today and is finding applications in every conceivable field. It is high time for faculty members to learn the concept and its various applications in a structured and practical manner, so that the learned knowledge gained can be disseminated to the students. This program will give an edge to the participants to understand, analyse and appreciate the values of Artificial Intelligence and its interrelations with other fields such as Internet of Things (IoT), Data Science and Big Data. The program is structured with modern teaching pedagogies and lab components which will enable the participants to learn the techniques, algorithms and examples relating to the current trends and applications of AI.
RESOURCE PERSON
Mr. Saurabh Bhardwaj
Founder & CEO- TechieNest Pvt. Ltd.
REGISTRATION DETAILS
Any Faculty / Research aspirants can register themselves through Google Form Link : https://forms.gle/JK2UYCMbqqmuQyS9
or through the QR CODE
Registration Upto: 19th November, 2021
Participation Certificate will be given to all participants
NOTE: "No Registration Fees"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Dr. Kavita
Garima Gakhar
Dr. Shipra Varshney
Tanvi Rustagi
Parthish Kumar Paul
Archana Kumar
Ankit saxena
Shweta
VIKAS
Megha Gupta
Unit Core
Dr. Sonu mittal
Shruti Jain
Aadya Jain
Jagruti Raut
Mohit Dayal
Sanjay Singla
Kajal Kaul
Sunita Chaurasia
Saijal Gupta
Dr Sanjay Singla
Riddhi Joshi
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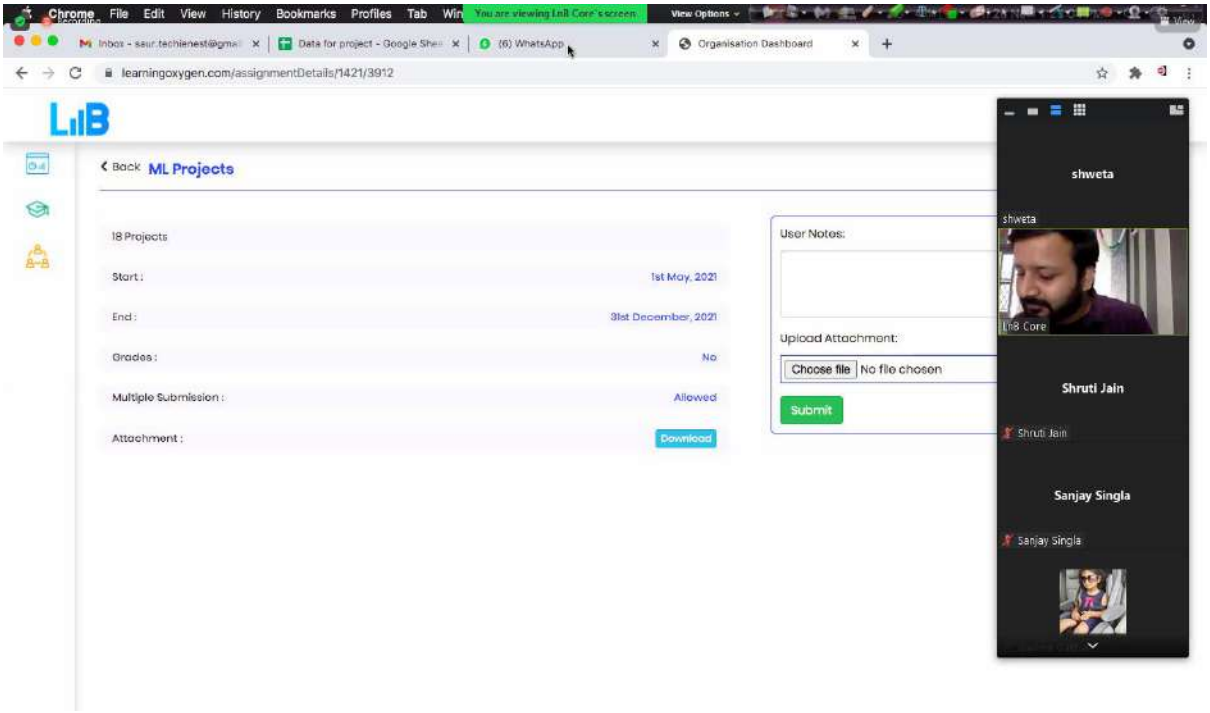
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LnB
Back ML Projects
18 Projects
Start : 1st May, 2021
End : 31st December, 2021
Grades : No
Multiple Submission : Allowed
Attachment : Download
User Notes:
Upload Attachment:
Choose file No file chosen
Submit
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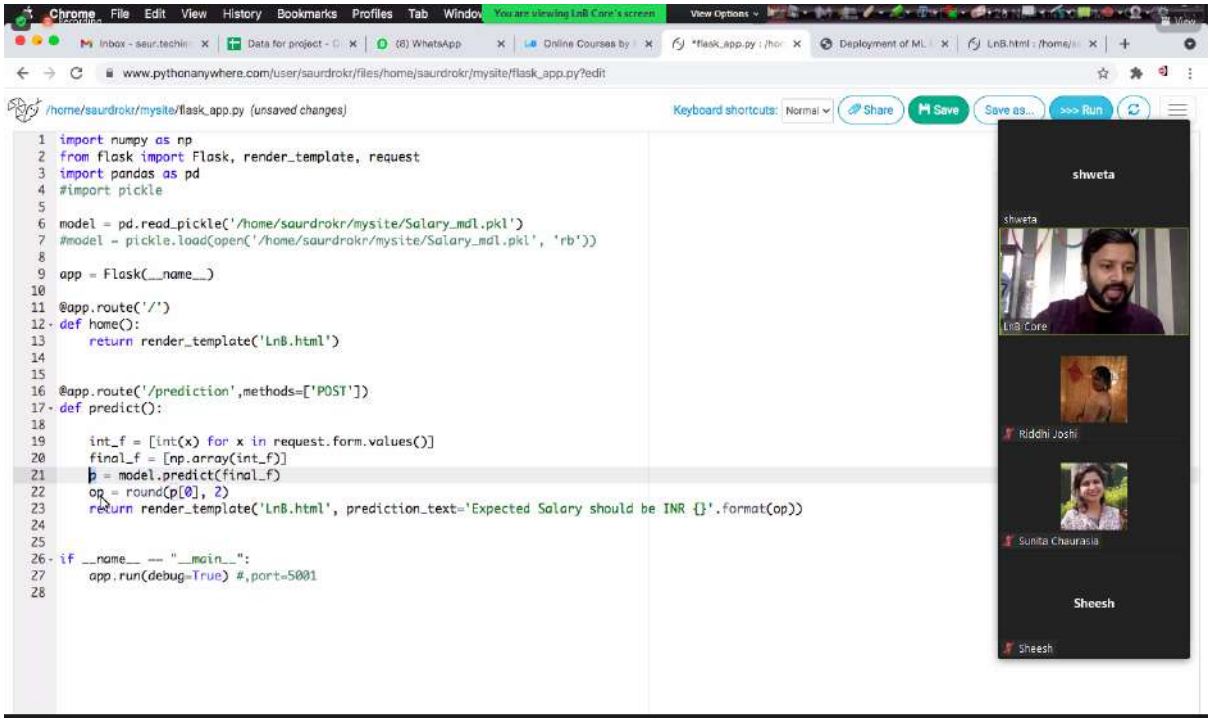
LnB Core
Shruti Jain
Shruti Jain
Sanjay Singla
Sanjay Singla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www.pythonanywhere.com/user/saurdrokr/files/home/saurdrokr/mysite/flask_app.py?edit
/home/saurdrokr/mysite/flask_app.py (unsaved changes)
Keyboard shortcuts: Normal
Share
Save
Save as...
>>> Run
import numpy as np
from flask import Flask, render_template, request
import pandas as pd
#import pickle
model = pd.read_pickle('/home/saurdrokr/mysite/Salary_mdl.pkl')
#model = pickle.load(open('/home/saurdrokr/mysite/Salary_mdl.pkl', 'rb'))
app = Flask(__name__)
@app.route('/')
def home():
return render_template('LnB.html')
@app.route('/prediction',methods=['POST'])
def predict():
int_f = [int(x) for x in request.form.values()]
final_f = [np.array(int_f)]
p = model.predict(final_f)
op = round(p[0], 2)
return render_template('LnB.html', prediction_text='Expected Salary should be INR {}'.format(op))
if __name__ == "__main__":
app.run(debug=True) #,port=5001
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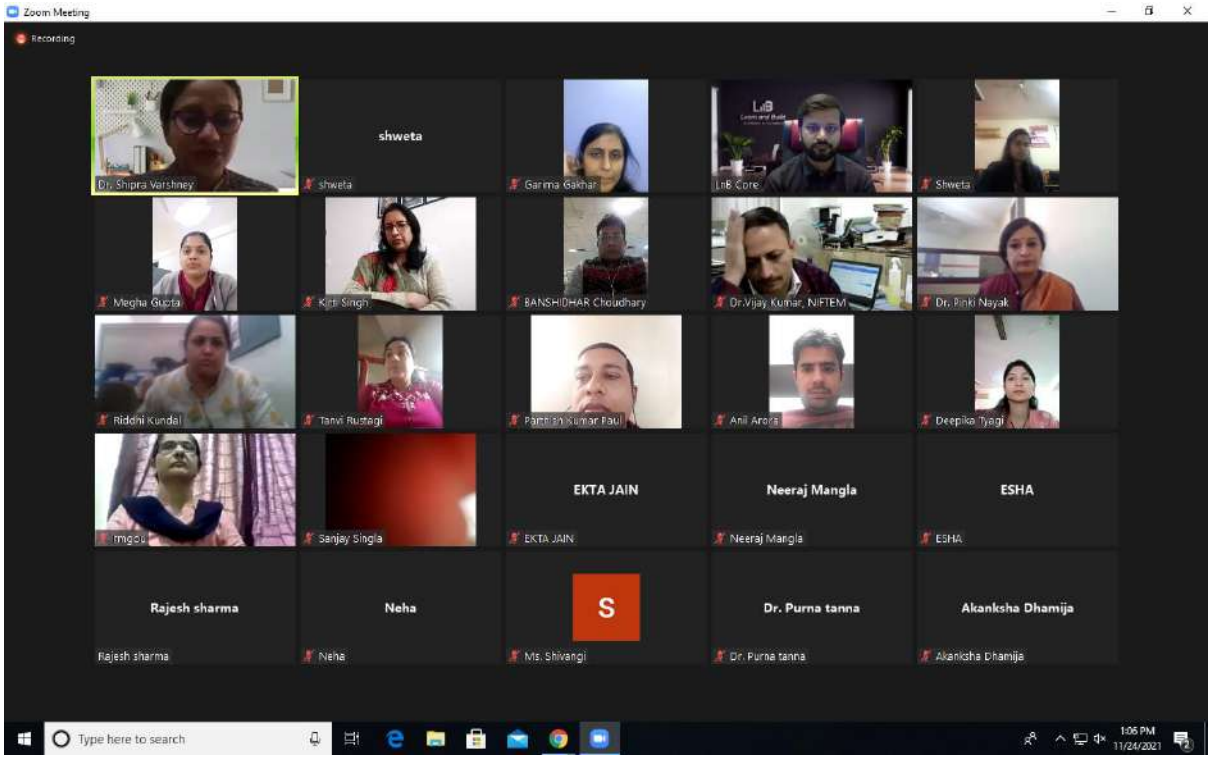
shweta
LnB Core
Riddhi Joshi
Sunita Chaurasia
Sheesh
Sheesh


Zoom Meeting
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Dr. Shipra Varshney
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Garima Gakhar
LnB Core
Shweta
Megha Gupta
Kirti Singh
BANSHIDHAR Choudhary
Dr.Vijay Kumar, NIFTEM
Dr. Pinki Nayak
Riddhi Kundal
Tanvi Rustagi
Parthiban Kumar Paul
Anil Arora
Deepika Tyagi
Sanjay Singla
EKTA JAIN
Neeraj Mangla
ESHA
Rajesh sharma
Neha
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Ms. Shivangi
Dr. Purna tanna
Akanksha Dhamija
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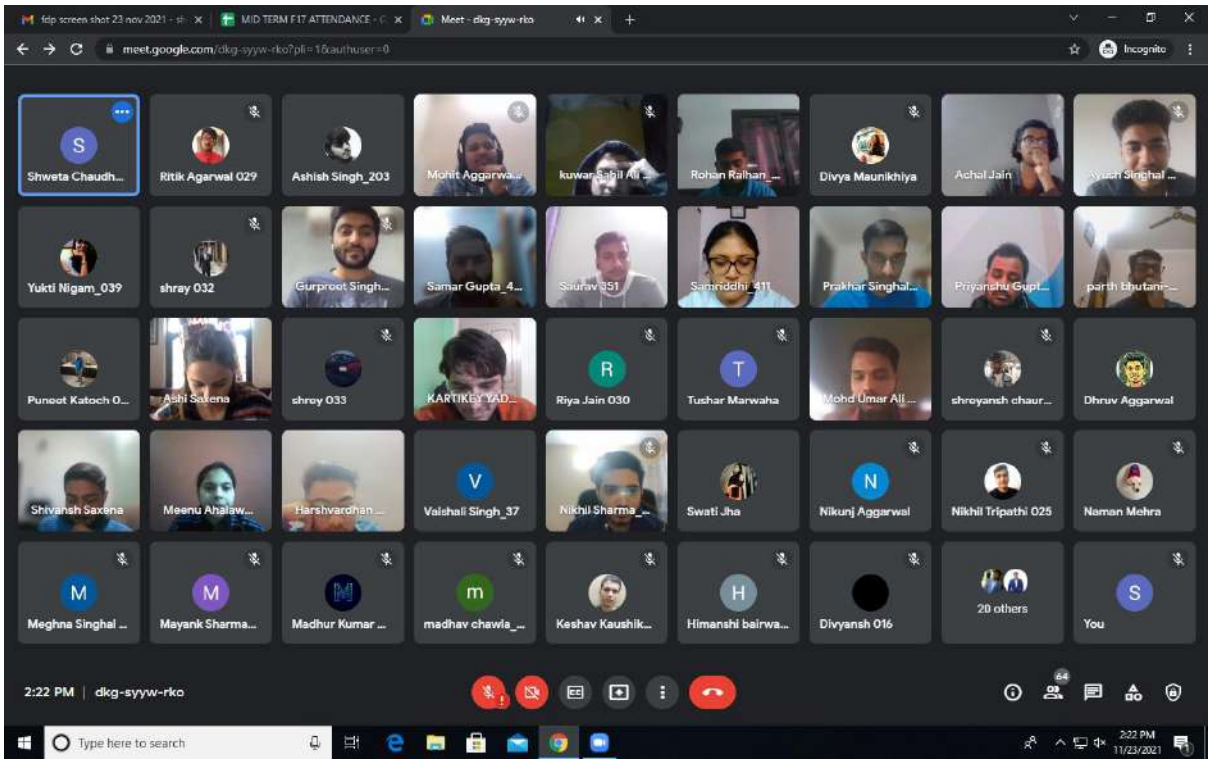
MID TERM F17 ATTENDANCE
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Incognito
Shweta Chaudh...
Ritik Agarwal 029
Ashish Singh_203
Mohit Aggarwa...
Rohan Raihan_...
Divya Maunikhiya
Achal Jain
Yukti Nigam_039
shray 032
Gurpreet Singh...
Samar Gupta_4...
Saurav 351
Samriddhi_411
Prakhar Singhal...
Priyanshu Gupt...
parth bhutani-...
Puneet Katoch O...
Ashi Saxena
shroy 033
Riya Jain 030
Tushar Marwaha
Mohd Umar Ali ...
shreyansh chaur...
Dhruv Aggarwal
Shivansh Saxena
Meenu Ahalaw...
Harshvardhan ...
Vaishali Singh_37
Nikhil Sharma_...
Swati Jha
Nikunj Aggarwal
Nikhil Tripathi 025
Naman Mehra
Meghna Singhal ...
Mayank Sharma...
Madhur Kumar ...
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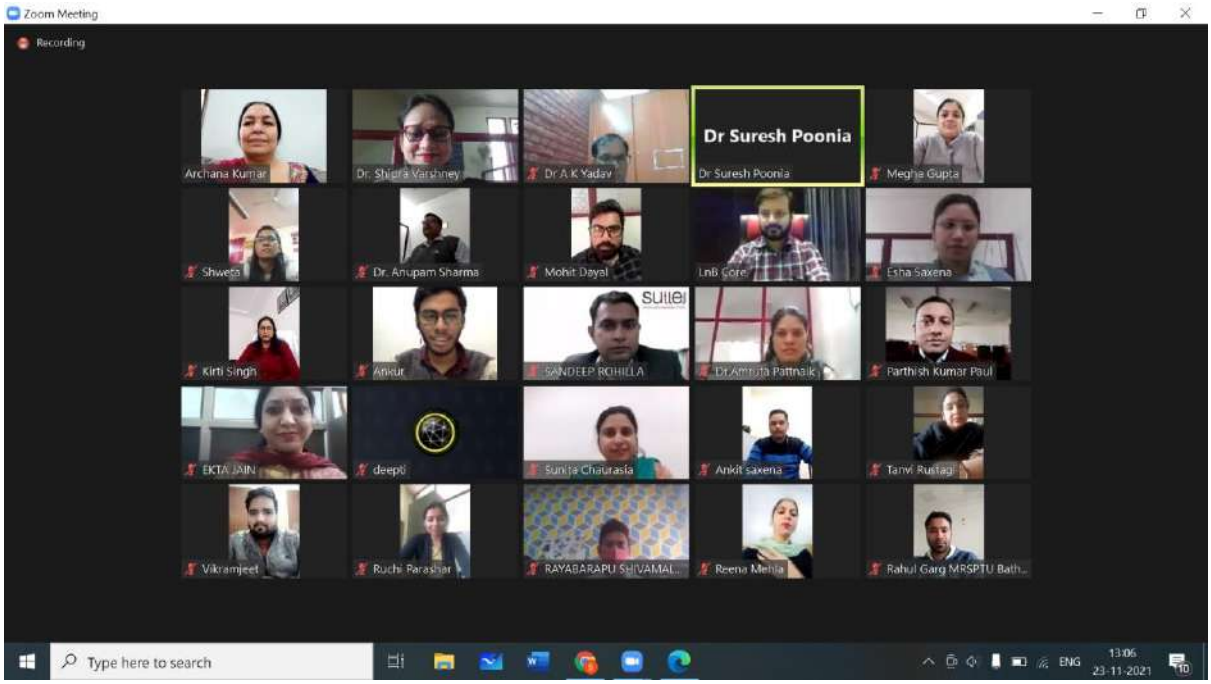

Megha Gupta **Prof.(Dr.) Anupam Kumar Sharma**

Event-InCharge,CSE **HoD ,CSE**