



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)

NAAC Accredited Institute

An ISO 9001:2008, 14001:2004 & OHSAS 18001:2007 Certified Institute

NH-5, Anakapalle, Visakhapatnam-531002, Andhra Pradesh

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One Week National Level Online

FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

Artificial Intelligence

(13th July 2020 to 18th July 2020)

Organized by

Department of Computer Science & Engineering

In association with

Computer Society of India (Region-V)

&

Institution's Innovation Council

(Ministry of HRD initiative)

Report on the Faculty Development Program (FDP)

About FDP:

In its pursuit of excellence in technical education **Dadi Institute of Engineering & Technology, Visakhapatnam** in association with **Institution's Innovation Council (Ministry of HRD initiative)** **along with Computer Society of India (Region-V)** organized a one week National Level Online Faculty Development Program (FDP) for the faculty of all departments on **“Artificial Intelligence”** during **13-07-2020 to 18-07-2020**. The FDP aims to create awareness and enhance knowledge on the emerging technology of Artificial Intelligence and modern algorithms taking place in the industry with AI.

About Institute's innovation Council:

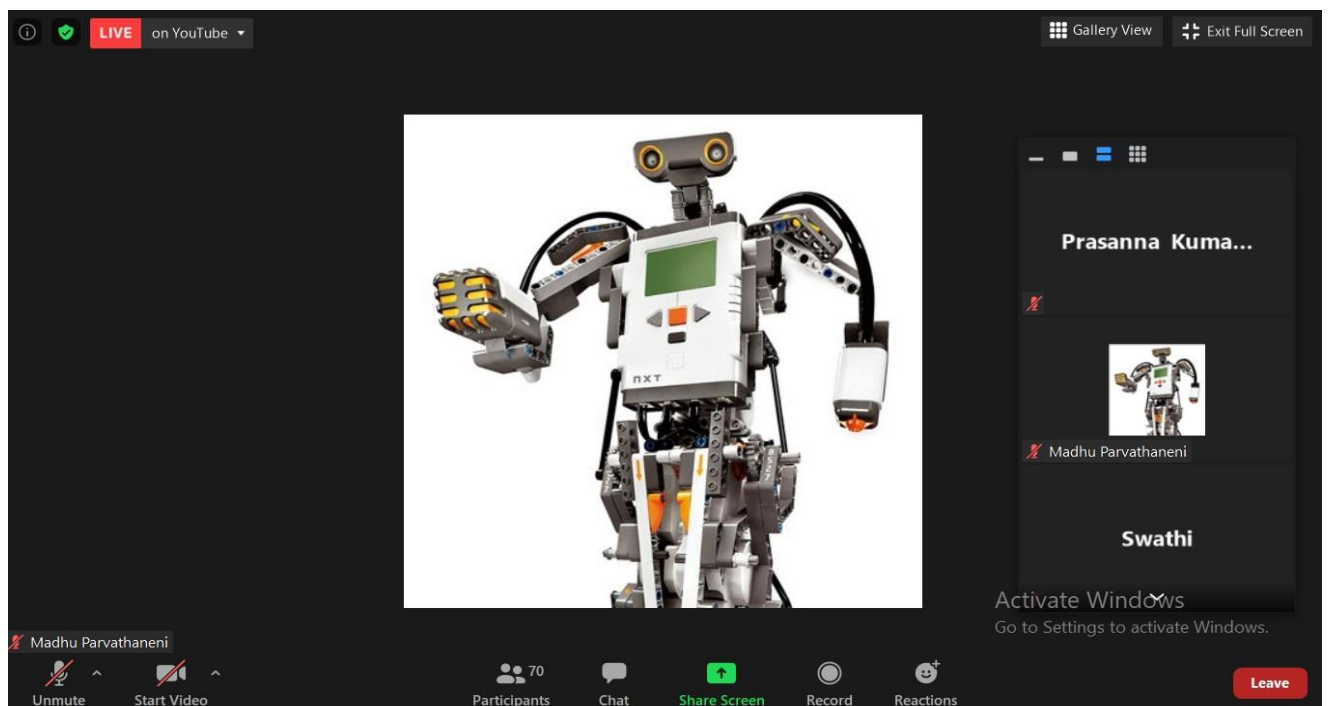
Ministry of HRD has established 'MRHD's Innovation Cell' with the mandate to work closely with our Higher Education Institutions (HEIs) to encourage the creative energy of our student population to work on new ideas and innovation and promote them to create start-ups and entrepreneurial venture

About CSI:

Computer Society of India (CSI) is the first and largest body of computer professionals in India. It was started on 6 March 1965 by a few computer professionals and has now grown to be the national body representing computer professionals.

Inauguration of the FDP:

The inauguration of the FDP was done in online platform on 13-07-2020 at 11am by Sri **Dadi Ratnakar, Honourable Chairman-DIET, Principal, Dr.Ch.PrabhakaraRao, Dr.L.Prasanna Kumar**, HoD-CSE & FDP Convener. HoD's of other departments and 79 participants from various institutes across the country participated in the inaugural function between 11a.m to 11.20am.



The image is a screenshot of a Zoom meeting interface. At the top, it shows 'LIVE on YouTube' and 'Gallery View' options. The main video area displays a LEGO Mindstorms robot with a white body and grey joints, featuring a small screen and various sensors. To the right, a participant list is visible, showing 'Prasanna Kuma...' and 'Madhu Parvathaneni' with a small thumbnail of the robot. Below the list, the name 'Swathi' is also visible. At the bottom, the Zoom control bar includes 'Unmute', 'Start Video', 'Participants' (70), 'Chat', 'Share Screen', 'Record', 'Reactions', and a 'Leave' button. A Windows watermark 'Activate Windows' is present in the bottom right corner.

Day Wise Program Details

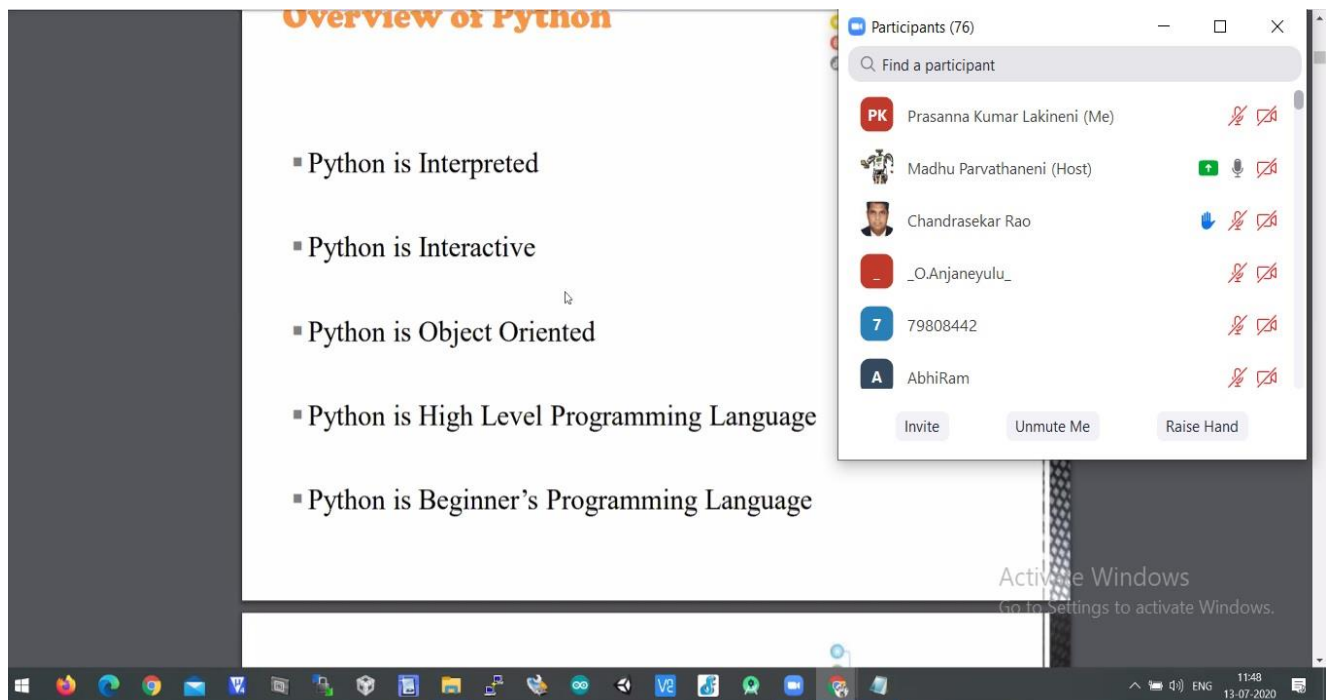
Day-1: FDP on "Artificial Intelligence " - DIET – 13th July 2020

Resource Person: Mr. Madhu Parvathaneni, CEO, madBlocks Technologies Pvt. Ltd.

Topics Covered: Python Introduction and pandas.

Mr. Madhu Parvathaneni, delivered A lecture on "Overview of Python and Pandas" from 11.20 AM to 1:30 PM through YouTube Live. All 79 participants were thoroughly engaged in the lecture and learned 'Python' with enthusiasm and due hands on session with expert. And also explained how to use google colab for python coding.

Day-1 session YouTube link : <https://www.youtube.com/watch?v=u1FUYHRL63U>



The screenshot displays a Zoom meeting interface. On the left, a slide titled "Overview of Python" lists the following characteristics:

- Python is Interpreted
- Python is Interactive
- Python is Object Oriented
- Python is High Level Programming Language
- Python is Beginner's Programming Language

On the right, the "Participants (76)" panel shows a list of attendees:

Name	Role	Audio	Video	Hand
PK Prasanna Kumar Lakineni (Me)	Participant	Muted	Off	Off
Madhu Parvathaneni (Host)	Host	On	On	Off
Chandrasekar Rao	Participant	Muted	Off	Off
O.Anjaneyulu	Participant	Muted	Off	Off
7 79808442	Participant	Muted	Off	Off
A AbhiRam	Participant	Muted	Off	Off

At the bottom of the screen, the Windows taskbar is visible, showing the time as 11:48 on 13-07-2020. An "Activate Windows" watermark is present in the bottom right corner of the meeting window.

Session-1 Python topics covered

Python Features



- Easy-to-learn
- Easy-to-read
- Easy-to-maintain
- Broad Standard Library
- Interactive Mode
- Portable
- Extendable
- Database Aware
- GUI Programming
- Scalable

Press ESC or double-click to exit full screen mode

Activate Windows
Go to Settings to activate Windows.

Unmute Start Video Participants 76 Chat 2 Share Screen Record Leave

AI FDP-13th to 18th July.ipynb

```
[6] print ("Welcome to FDP", "Hello Everyone")
```

Welcome to FDP Hello Everyone

```
a='madhu' # int variable
print (type(a))
```

<class 'str'>

int a; // declaration

RAM Disk Editing

Activate Windows
Go to Settings to activate Windows.

Unmute Start Video Participants 73 Chat 6 Share Screen Record Leave

AI FDP-13th to 18th July

You are viewing Madhu Parvathaneni's screen

```
[6] print ("Welcome to FDP", "Hello Everyone")
```

Welcome

```
[18] a='madhu'
print (t
```

Prints the values to a stream, or to sys.stdout by default.
Optional keyword arguments:
file: a file-like object (stream); defaults to the current sys.stdout.
sep: string inserted between values, default a space.
end: string appended after the last value, default a newline.
flush: whether to forcibly flush the stream.

```
a=10
a=str(a)
print(tp[a])
```

10

int a; // declaration

Participants (73)

Find a participant

- PK Prasanna Kumar Lakineni (Me)
- Madhu Parvathaneni (Host)
- Chandrasekar Rao
- _O.Anjaneyulu_
- 1 17K41A05E0
- 7 79808442
- A AbhiRam
- AV Adepu Vijaya
- Benjamin Sanam
- Brahmam Mothukuri
- C CAPTAIN

Invite

Activate Windows
Go to Settings to activate Windows.

Unmute Me Raise Hand

Unmute Start Video Participants 73 Chat 7 Share Screen Record Leave

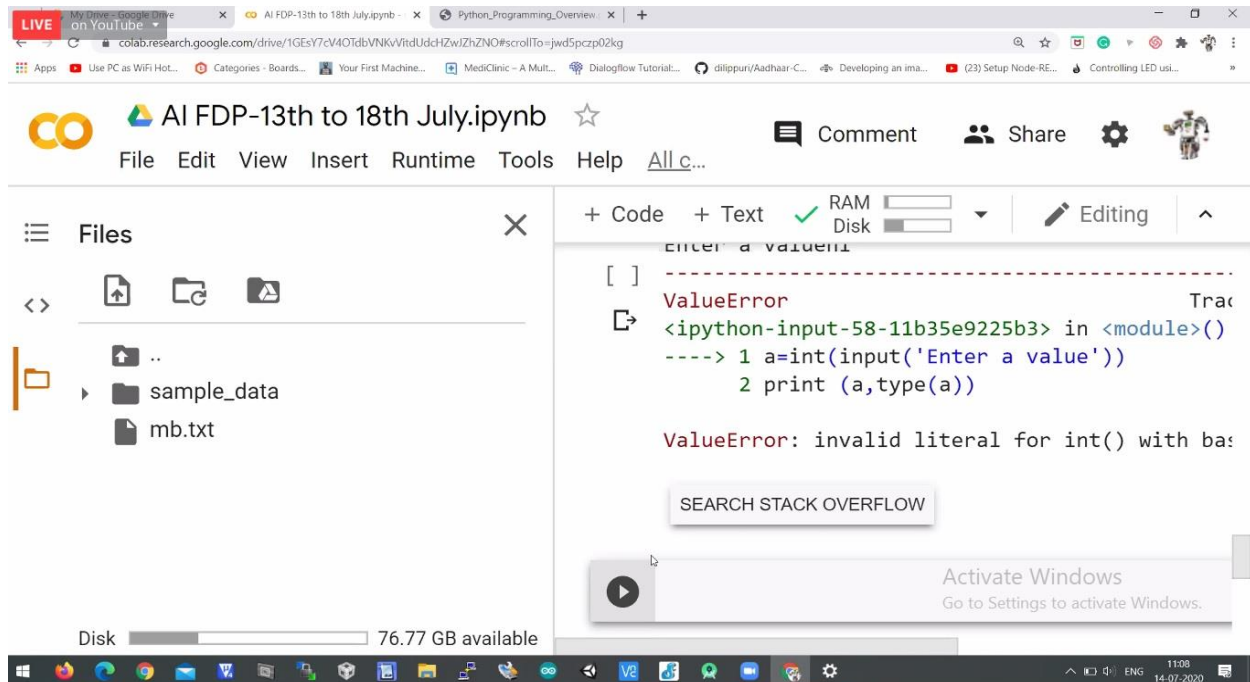
Day-2: FDP on "Artificial Intelligence " - DIET – 14th July 2020

Resource Person: Mr. Madhu Parvathaneni, CEO, madBlocks Technologies Pvt. Ltd.

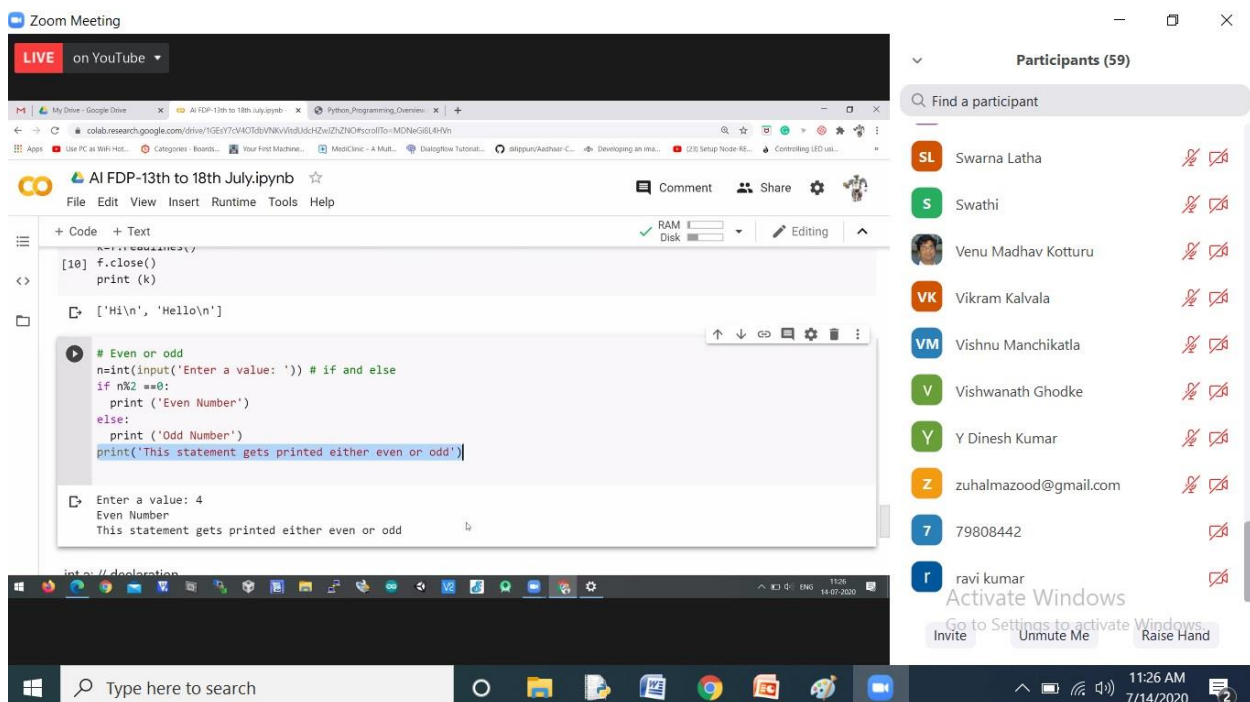
Topics Covered: Python Pandas and introduction to AI chatbots coding.

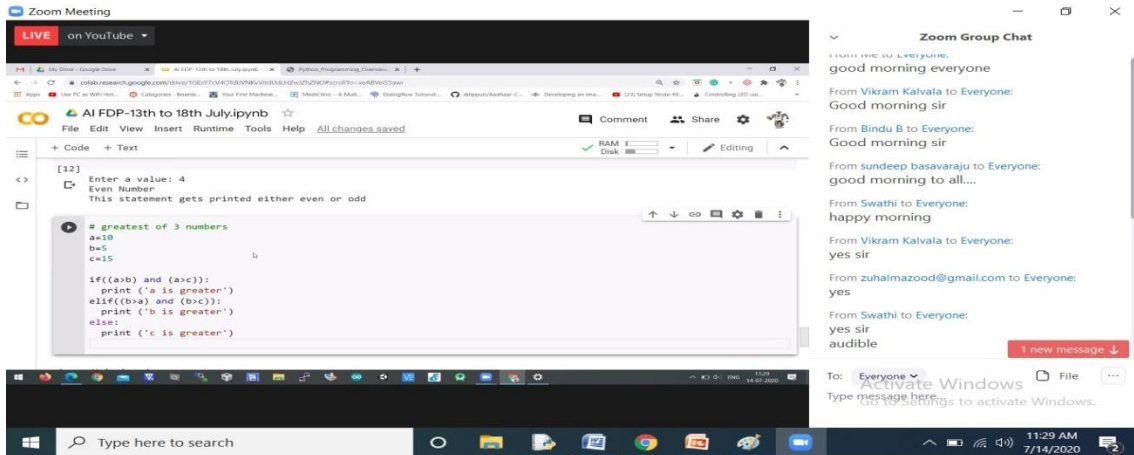
Mr. Madhu Parvathaneni, delivered A lecture on "Python Pandas and AI Chatbots" from 11.00am AM to 1:30 PM through & Zoom meetings & YouTube Live. All 79 participants were thoroughly engaged in the lecture and learned **Pandas and Practiced AI Chatbots** coding with due hands on session with expert.

Day-2 Session YouTube link: <https://www.youtube.com/watch?v=WakCiknTtvA>



Coding on input & output functions





Hands on Session on Google Colab

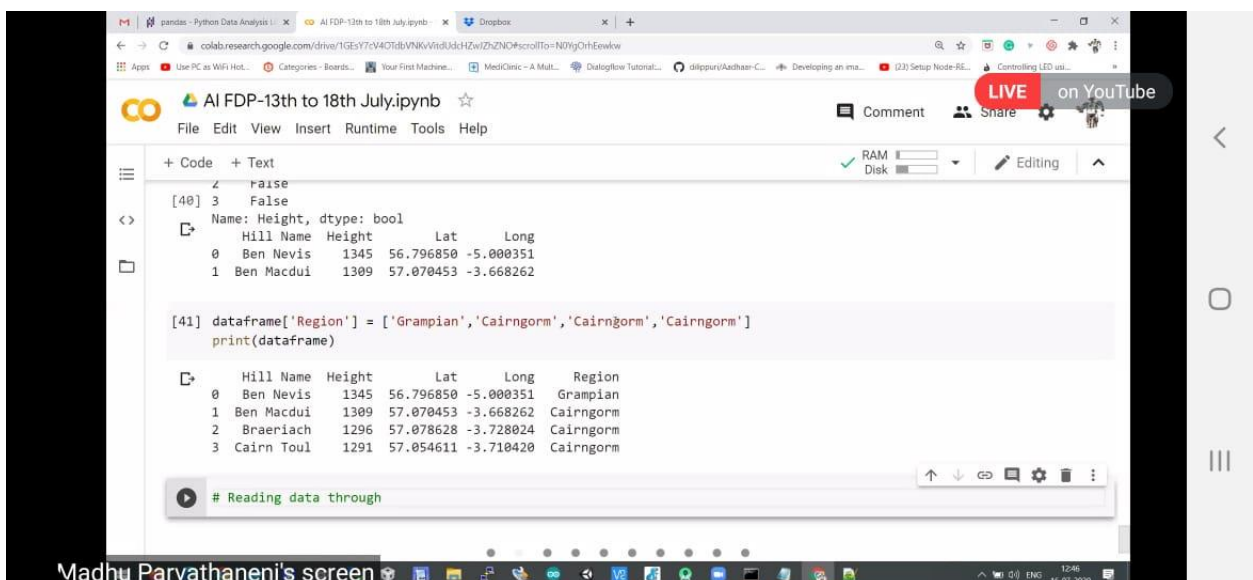
Day 3 - FDP on " Artificial Intelligence " - DIET – 15th July 2020.

Resource Person: Mr. Madhu Parvathaneni, CEO, madBlocks Technologies Pvt. Ltd.

Topics Covered: AI chatbots coding.

Mr. Madhu Parvathaneni, delivered hands on lecture on "AI Chatbots" from 11.00am AM to 1:15 PM through & Zoom meetings & YouTube Live. All 79 participants were thoroughly engaged in the lecture and learned & Practiced **AI Chatbots** coding with due hands on session with expert.

Day-3 session YouTube link: <https://www.youtube.com/watch?v=FsN7SjvPHQU>



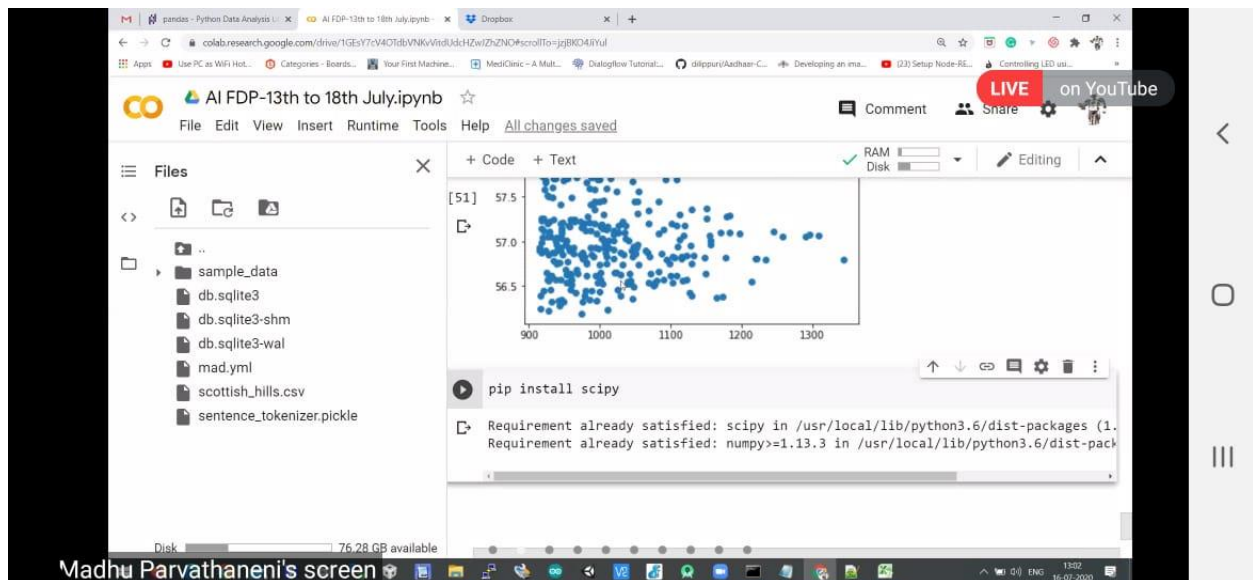
Day 4 - FDP on " Artificial Intelligence " - DIET – 16th July 2020.

Resource Person: Mr. Madhu Parvathaneni, CEO, madBlocks Technologies Pvt. Ltd.

Topics Covered: Linear Regression model evaluation.

Mr. Madhu Parvathaneni, delivered a hands on lecture on "Linear Regression" from 11.00am AM to 1:15 PM through & Zoom meetings & YouTube Live. All 79 participants were thoroughly engaged in the lecture and learned & Practiced coding with due hands on session with expert.

Day-4: session YouTube link: <https://www.youtube.com/watch?v=C6XFTgzsk0>



Linear Regression explanation using scipy

Day 5 - FDP on "Artificial Intelligence " - DIET – 17th July 2020.

Resource Person: Mr. Madhu Parvathaneni, CEO, madBlocks Technologies Pvt. Ltd.

Topics Covered: Linear Regression types & Multiple Linear regression.

Mr. Madhu Parvathaneni, delivered a hands on lecture on "Linear Regression types & Multiple Linear regression " from 11.00am AM to 1:15 PM through & Zoom meetings & YouTube Live. All 79 participants were thoroughly engaged in the lecture and learned & Practiced coding with due hands on session with expert.

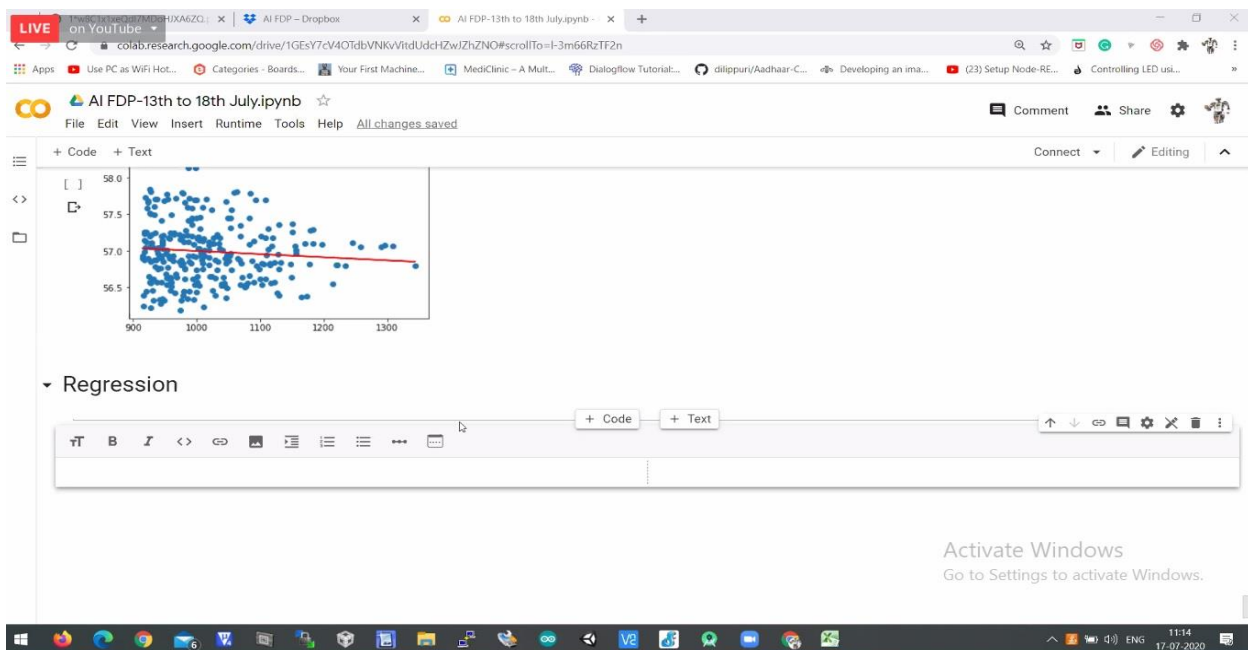
Day-5: session YouTube link: <https://www.youtube.com/watch?v=BO78nApYhtw>

```
print("This statement gets printed either even or odd")

# greatest of 3 numbers
a=10
b=5
c=15

if((a>b) and (a>c)):
    print ('a is greater')
elif((b>a) and (b>c)):
    print ('b is greater')
else:
    print ('c is greater')

# sum of 10 natural numbers
a=1
sum=0
while a<=10: # until the condition goes false
```



Regression hands on Session

Day-6 : FDP on " Artificial Intelligence " - DIET – 18th July 2020.

Resource Person: Mr. Madhu Parvathaneni, CEO, madBlocks Technologies Pvt. Ltd.

Topics Covered: Logistic Regression, Support Vector Regression and K-Nearest Neighbors

Mr. Madhu Parvathaneni, delivered a hands on lecture on " Logistic Regression, Support Vector Regression and K-Nearest Neighbors " from 11.00am AM to 1:15 PM through & Zoom meetings & YouTube Live. All 79 participants were thoroughly engaged in the lecture and learned & Practiced coding with due hands on session with expert.

Day-6 session YouTube link: <https://www.youtube.com/watch?v=GxUlcb6Juus>

AI FDP-13th to 18th July.ipynb

File Edit View Insert Runtime Tools Help All c...

+ Code + Text

```
%%!
abs
%alias
%alias_magic
all
and
any
ArithmeticError
as
ascii
assert
AssertionError
```

```
ct=ColumnTransformer(transformers=[],remainder='')
```

RAM Disk

Prasanna Kuma...

Sreelatha Maganti

Activate Windows
Go to Settings to activate Windows.

11:32 18-07-2020

AI FDP-13th to 18th July.ipynb

File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

RAM Disk

Editing

Files

- sample_data
 - MLR_50_Startups.csv

70000
65000
60000

4.0 4.5 5.0 5.5 6.0 6.5 7.0

Years of Experience

Multiple Linear Regression

MLR_50_Startups.csv

1 to 10 of 50 entries Filter

R&D Spend	Administration	Marketing Spend	State	Profit
165349.2	136897.8	471784.1	New York	192261.83
162597.7	151377.59	443898.53	California	191792.06
153441.51	101145.55	407934.54	Florida	191050.39

Unmute Start Video Participants 34 Chat Share Screen Record Leave

```

# Train the entire dataset to PLR Model
from sklearn.preprocessing import PolynomialFeatures # Imported the class
lin_reg1=PolynomialFeatures(degree=4) # Polynomial Features with degree 2
X1=lin_reg1.fit_transform(X) # New value X1 by updating the polynomial features
poly_lin_reg=LinearRegression() # We have created a LR Object
#print(X1)
poly_lin_reg.fit(X1,Y) # We have trained the ploynomial features of X and Y

plt.scatter(X,Y,color="red")
plt.plot(X,lin_reg.predict(X),color="blue")
plt.title("Linear Regression")
plt.xlabel('Position Level')
plt.ylabel('Salary')
plt.show()

plt.scatter(X,Y,color="red")
plt.plot(X,poly_lin_reg.predict(X1),color="blue")

```

Outcome of the Six Day FDP:

Faculty from more than 22 Engineering Colleges participated in the FDP and had a wonderful experience of obtaining hands on learning of the complete Artificial Intelligence. It helped all participants to implement code using Google Colab.

Now all participants are able to:

- Write code of AI chatbot
- Develop Linear regression model.
- Practice on Google colab
- Develop multiple regression models, Support Vector Regression Model.

Participants list

S.NO	TITLE	FULL NAME (TO BE PRINTED ON CERTIFICATE)	DEPARTMENT	NAME OF THE INSTITUTE/COLLEGE/UNIVERSITY
1.	MRS.	S SUNEETHA	CSE	ANDHARA UNIVERSITY
2.	MS.	SUNITA S CHAUHAN	INFORMATION TECHNOLOGY	GANPAT UNIVERSITY
3.	MRS.	SANGEETA GIRI	CE	GANPAT UNIVERSITY-U. V PATEL COLLEGE OF ENGINEERING
4.	MRS.	T.RENUKA	CSE	DR.L.BULLAYYA COLLEGE OF ENGINEERING FOR WOMEN
5.	MR.	SRIKAR RAVI	COMPUTER SCIENCE	V R SIDDHARTHA
6.	MR.	APPARAO GEDDAPU	CSE	DIET
7.	MR.	CHANDRASEKHARAN DINESH	COMPUTER SCIENCE AND ENGINEERING	DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY

8.	MS.	MACHHA. MOUNIKA	ELECTRICAL & ELECTRONICS ENGINEERING	LOYOLA POLYTECHNIC (YSRR)
9.	DR.	DR. RAJESH KUMAR PATNAIK	EEE	GMR INSTITUTE OF TECHNOLOGY
10.	MRS.	SESHA BHARGAVI VELAGALETI	INFORMATION TECHNOLOGY	G NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCES
11.	MR.	HARISHA K S	ELECTRONICS AND COMMUNICATION	GOVERNMENT ENGINEERING COLLEGE HAVERI
12.	MRS.	SUJATHA THULAM	CSE	DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY
13.	MRS.	G.KAVITHA	MATHEMATICS	OSMANIA UNIVERSITY
14.	MR.	S.SIVAKUMAR	MANAGEMENT STUDIES	ALAGAPPA UNIVERSITY
15.	MR.	MOHAMMED SADIQ	ELECTRONICS AND COMMUNICATION ENGINEERING	DECCAN COLLEGE OF ENGINEERING AND TECHNOLOGY
16.	MS.	SHRUTHI K M	ELECTRONICS AND COMMUNICATION ENGINEERING	NAVKIS COLLEGE OF ENGINEERING HASSAN
17.	MS.	NAZIYA FARHEEN H S	ELECTRONICS AND COMMUNICATION ENGINEERING	NAVKIS COLLEGE OF ENGINEERING
18.	DR.	DR VIRENDRA GOMASE	LAW	DEPARTMENT OF LAW, TMV, PUNE
19.	MR.	JONNALA SUBBA REDDY	MECHANICAL ENGINEERING	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING, MYLAVARAM
20.	DR.	MANORANJITHAM R	INFORMATION TECHNOLOGY	NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL, MANGALORE
21.	MR.	VIKRAM KALVALA	CSE	GURU NANAK INSTITUTIONS TECHNICAL CAMPUS (AUTONOMOUS)
22.	MR.	BENJAMIN SANAM	ENGLISH	NEWTON'S INSTITUTE OF SCIENCE AND TECHNOLOGY
23.	MR.	KEMPILIVENKATESH	COMPUTER SCIENCE AND ENGINEERING	MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY
24.	MR.	Y.DINESH KUMAR	COMPUTER SCIENCE AND ENGINEERING	DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY
25.	DR.	DR. KARIMSETTY SUJATHA	CSE	DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
26.	MRS.	SIDDIKA SABAHATH ANJUM	ELECTRONICS AND COMMUNICATION ENGINEERING	NAVKIS COLLEGE OF ENGINEERING HASSAN
27.	MR.	VISWANADHAREDDY N	CSE	DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY
28.	MRS.	KOMALI KALLA	CSE	DADI INSTITUTE OF ENGINEERING & TECHNOLOGY
29.	MR.	B S VAMSI KRISHNA	COMPUTER SCIENCE ENGINEERING	M V G R COLLEGE OF ENGINEERING
30.	MR.	P L N RAJU	CSE	M V G R COLLEGE OF ENGINEERING(A)

31.	MRS.	M.PRIYANKA	CSE	MVGRCE
32.	MR.	MADDALA BHUVAN PREM SAI KUMAR	COMPUTER SCIENCE AND ENGINEERING	DADI INSTITUE OF ENGINEERING AND TECHNOLOGY
33.	MS.	MANJUPRIYA P	CSE	SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY
34.	DR.	DR. B. BINDU	ROBOTICS AND AUTOMATION ENGINEERING	PSG COLLEGE OF TECHNOLOGY
35.	MRS.	EVITA COELHO	COMPUTER SCIENCE AND ENGINEERING	ST JOSEPH ENGINEERING COLLEGE
36.	MRS.	M. BEULAH RANI	COMPUTER SCIENCE ENGINEERING	MVGR COLLEGE OF ENGINEERING
37.	MR.	PANDURANGAN.K	CSE	SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY
38.	MRS.	SRAVANTHI DUBASI	INFORMATION TECHNOLOGY	VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
39.	MR.	RAVIKANTH R	CSE	MVGR COLLEGE OF ENGINEERING
40.	MRS.	JANAPAREDDY DHANALAKSHMI	CSE	DIET INSTITUTE OF ENGINEERING AND TECHNOLOGY
41.	MRS.	SUJATHA GORINTA	CSE	DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY
42.	MR.	RAMARAJU.S.V.S.V.PALLA	COMPUTER SCIENCE ENGINEERING	DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY
43.	MR.	G VISHWANATH	ELECTRONICS AND COMMUNICATION ENGG	KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMEN MANIKBHANDAR NIZAMABAD
44.	MR.	SIVAKUMAR S	MBA	ALAGAPPA UNIVERSITY
45.	MR.	MR. ARCOT VIDYA SAGAR	ELECTRONICS & COMMUNICATION ENGINEERING	GOVERNMENT INSTITUTE OF ELECTRONICS, SECUNDERABAD
46.	MR.	MANJUNATH SURYAVANSHI	COMPUTER SCIENCE	KLE'S P. C. JABIN SCIENCE COLLEGE
47.	MS.	PREETHI PEERASHETTI	COMPUTER SCIENCE	P C JABIN SCIENCE COLLEGE HUBBALLI
48.	MR.	RAVIKUMAR .B. MALAGI	COMPUTER SCIENCE	KLE'S P C JABIN SCIENCE COLLEGE AUTONOMOUS HUBBALLI
49.	MR.	ZUHAL MAZOOD	DEPARTMENT OF EDUCATION	TKDM GOVT VHSS
50.	DR.	DR CH SUBBALAKSHMI	CSE	GURU NANAK INSTITUTION TECHNICAL CAMPUS

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Registration Fee
199/-
 Only

9885053204

In Association with

Convener:
 Dr. L.P. Kumar
 HoD-CSE & DIET-CSI-SBC,
 9963994893
 hodcse@diet.edu.in





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