

# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
**NAAC Accredited Institute and Inclusion under Section 2(f) of UGC Act**  
An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution  
NH-16, Anakapalle - 531002, Visakhapatnam, A.P.  
Mobile: +91 9963981111, Website: [www.diet.edu.in](http://www.diet.edu.in), E-mail: [info@diet.edu.in](mailto:info@diet.edu.in)

Date: 03-07-2020

Anakapalle

To

The Principal,

Dadi Institute of

Engineering & Technology

Anakapalle, Visakhapatnam.

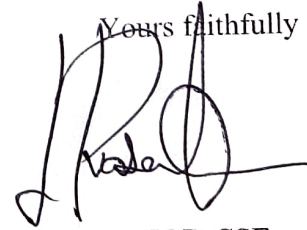
Sub: Request for approval of FDP on AI

Respected Sir,

The Department of CSE is proposing to conduct a Faculty Development Programme on Artificial Intelligence. In this regard, we request you to give approval to conduct this event from 13<sup>th</sup> July 2020 to 18<sup>th</sup> July 2020 through YouTube streaming.

Thank You Sir

Yours faithfully



HOD CSE  
Head of the Department  
Computer Science & Engg.  
Dadi Institute of Engg. & Techn.  
Anakapalle-531002



PRINCIPAL  
Dadi Institute of  
Engineering & Technology  
ANAKAPALLE - 531 002



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## CIRCULAR

Date:5-7-2020

Anakapalle

This is to inform all the Faculty Members that the Department of CSE is going to conduct a Faculty Development Programme on Artificial Intelligence from 13<sup>th</sup> July 2020 to 18<sup>th</sup> July 2020 through YouTube live streaming. Faculty Members are requested to attend the event.

HOD CSE

Head of the Department  
Computer Science & Engg  
Dadi Institute of Engg. & Tech.  
Anakapalle-531002



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**One Week National Level Online  
FACULTY DEVELOPMENT PROGRAMME (FDP)  
ON  
Artificial Intelligence  
(13<sup>th</sup> July 2020 to 18<sup>th</sup> July 2020)  
Organized by  
Department of Computer Science & Engineering  
In association with  
Computer Society of India (Region-V)**

**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.

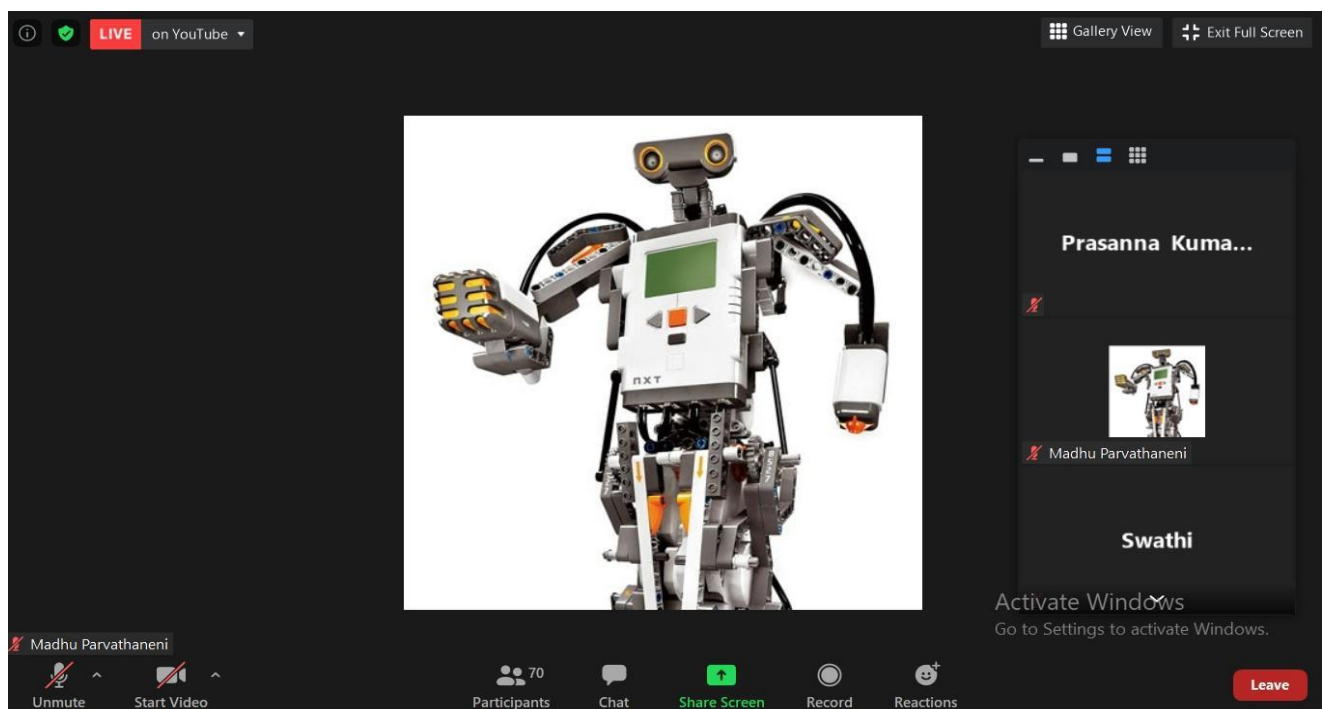


Fig.1 FDP on Artificial Intelligence

## Day Wise Program Details

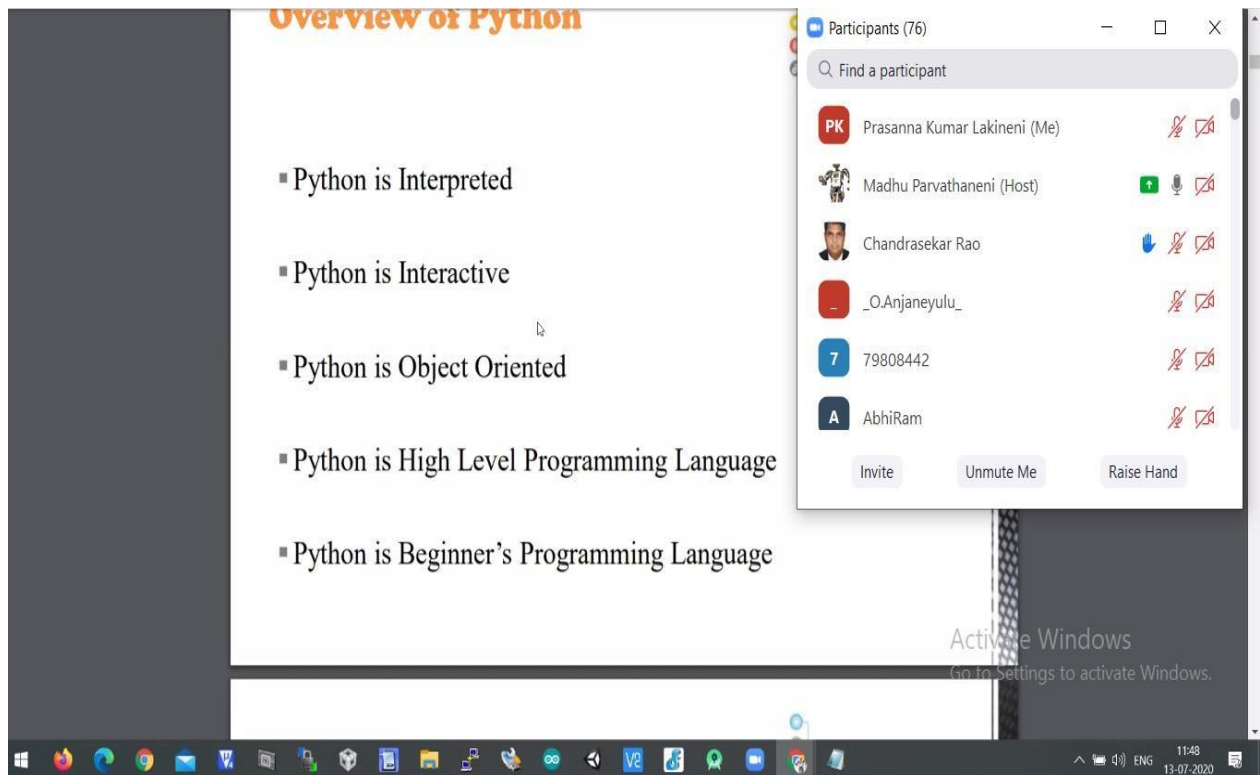
Day-1: FDP on “Artificial Intelligence ” - DIET – 13<sup>th</sup> July 2020

Resource Person: Mr. Madhu Parvathaneni, CEO, mad Blocks 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 experts. 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)" window is open, showing a list of attendees with their names and status icons (mute, video, chat):

Name	Mute	Video	Chat
Prasanna Kumar Lakineni (Me)	Off	Off	Off
Madhu Parvathaneni (Host)	On	On	On
Chandrasekar Rao	Off	Off	On
_O.Anjaneyulu_	Off	Off	Off
79808442	Off	Off	Off
AbhiRam	Off	Off	Off

At the bottom of the participants window, there are buttons for "Invite", "Unmute Me", and "Raise Hand". The Windows taskbar at the bottom shows the time as 11:48 on 13-07-2020.

Fig. 2 Python Introduction and pandas



Fig. 3 Python Features

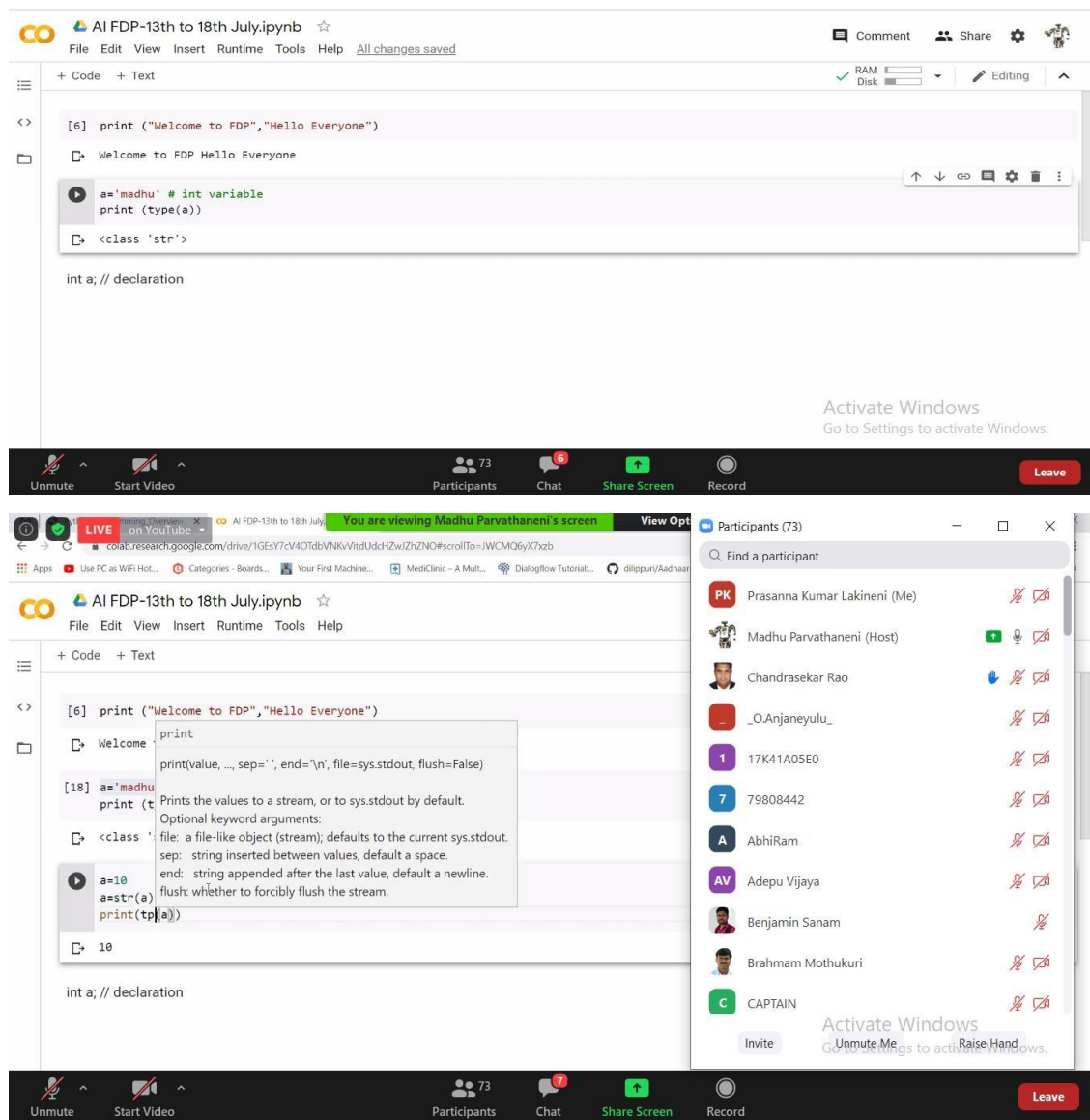


Fig. 4 Colab for python forming

Day-2: FDP on “Artificial Intelligence ” - DIET – 14<sup>th</sup> 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 sessions with experts.

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

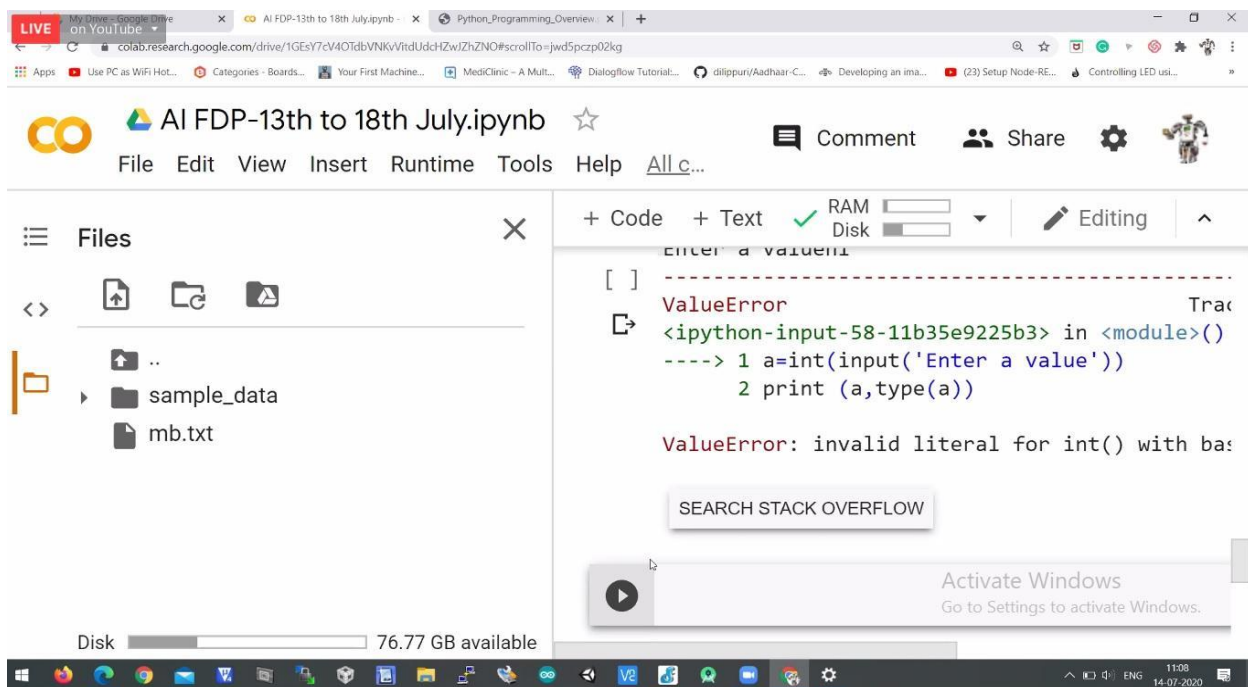


Fig. 5 Coding on input & output functions

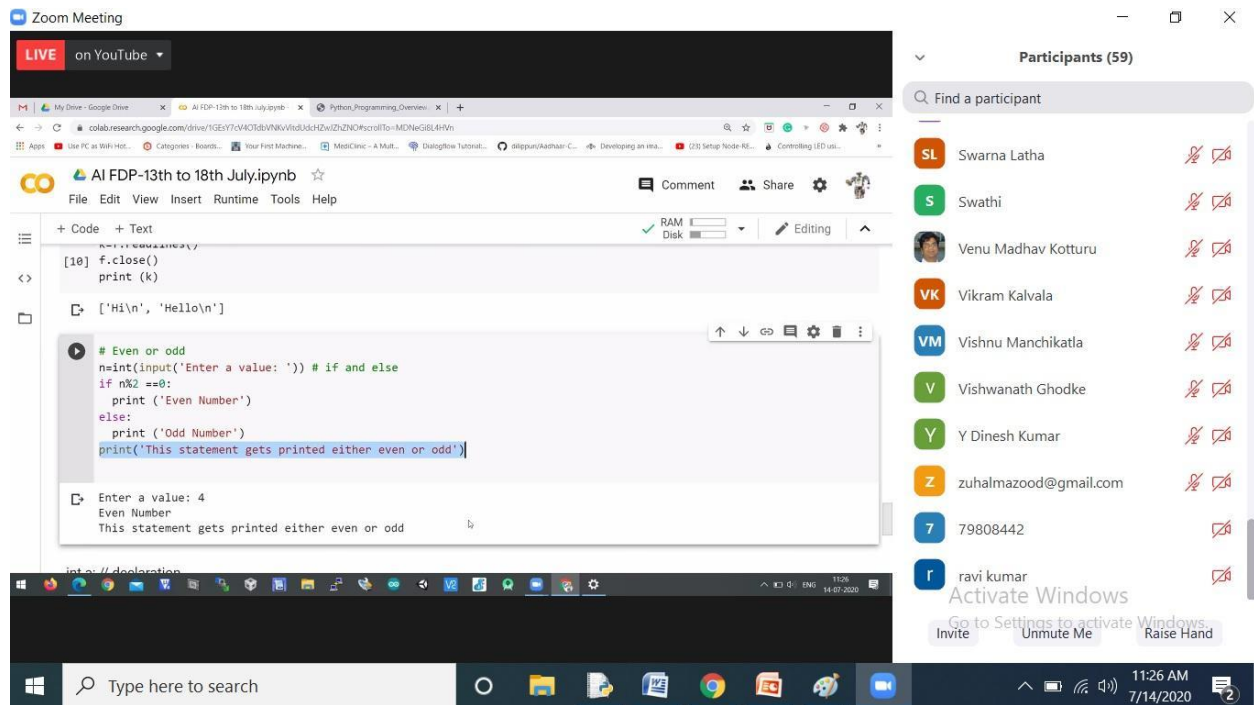


Fig.6 Python Pandas and AI Chatbots

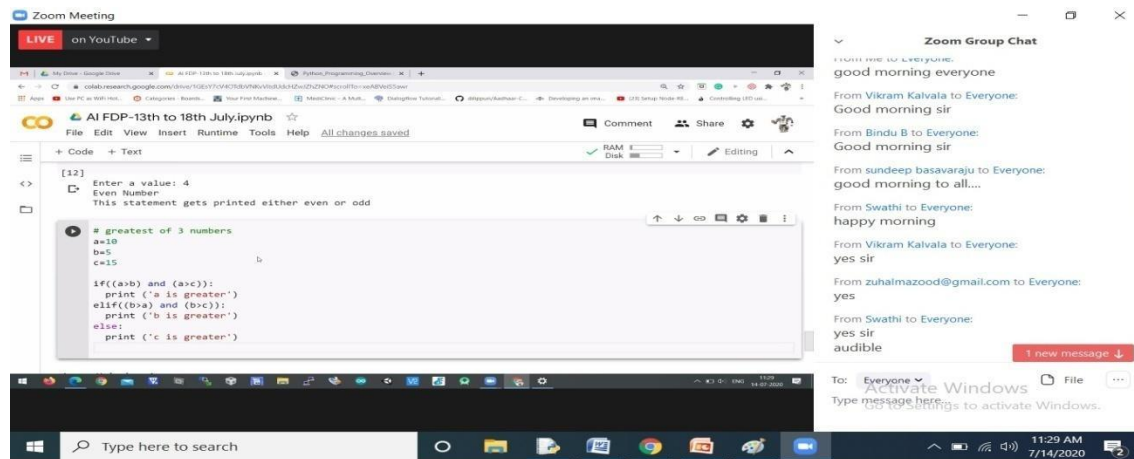


Fig. 7 Hands on Session on Google Colab

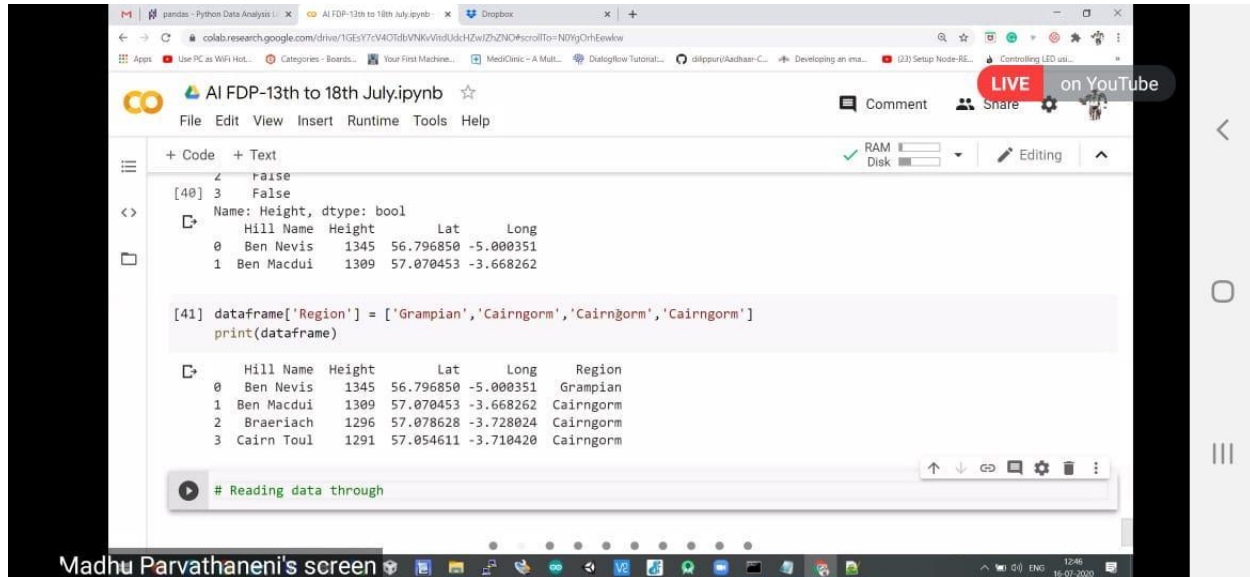
Day 3 - FDP on " Artificial Intelligence " - DIET – 15<sup>th</sup> July 2020.

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

Topics Covered: AI chatbots coding.



Mr. Madhu Parvathaneni, delivered a 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 experts. Day-3 session YouTube link: <https://www.youtube.com/watch?v=FsN7SjvPHQU>



```
raise
[40] 3 False
Name: Height, dtype: bool
   Hill Name  Height  Lat      Long
0  Ben Nevis  1345   56.796850 -5.000351
1  Ben Macdui  1309   57.070453 -3.668262

[41] dataframe['Region'] = ['Grampian', 'Cairngorm', 'Cairngorm', 'Cairngorm']
print(dataframe)

   Hill Name  Height  Lat      Long  Region
0  Ben Nevis  1345   56.796850 -5.000351  Grampian
1  Ben Macdui  1309   57.070453 -3.668262  Cairngorm
2  Braeriach  1296   57.078628 -3.728024  Cairngorm
3  Cairn Toul  1291   57.054611 -3.710420  Cairngorm

# Reading data through
```

Fig. 8 AI Chatbots

Day 4 - FDP on " Artificial Intelligence " - DIET – 16<sup>th</sup> 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 experts.

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

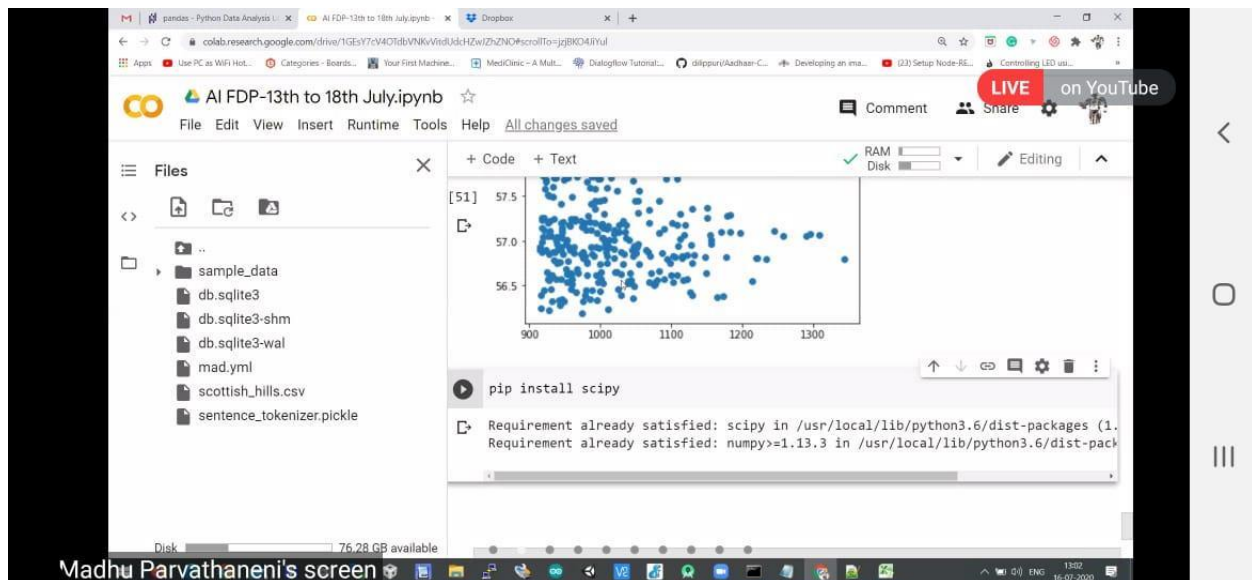


Fig. 9 Linear Regression explanation using scipy

Day 5 - FDP on "Artificial Intelligence " - DIET – 17<sup>th</sup> 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 hands-on sessions with experts.

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

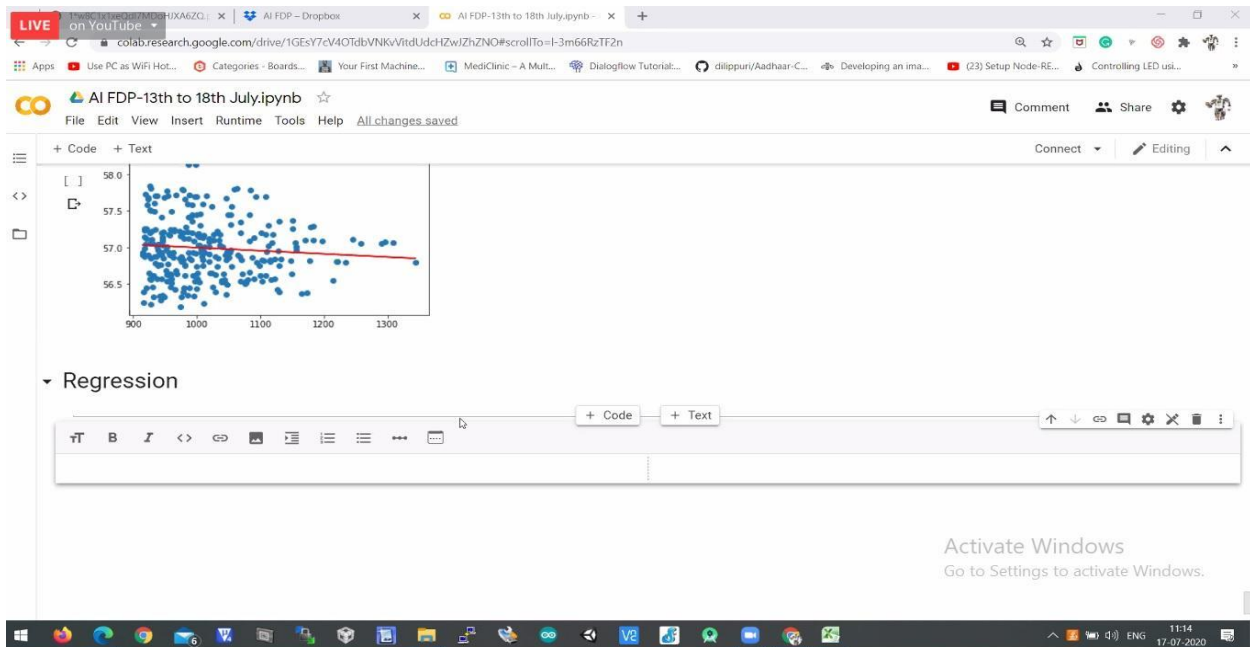
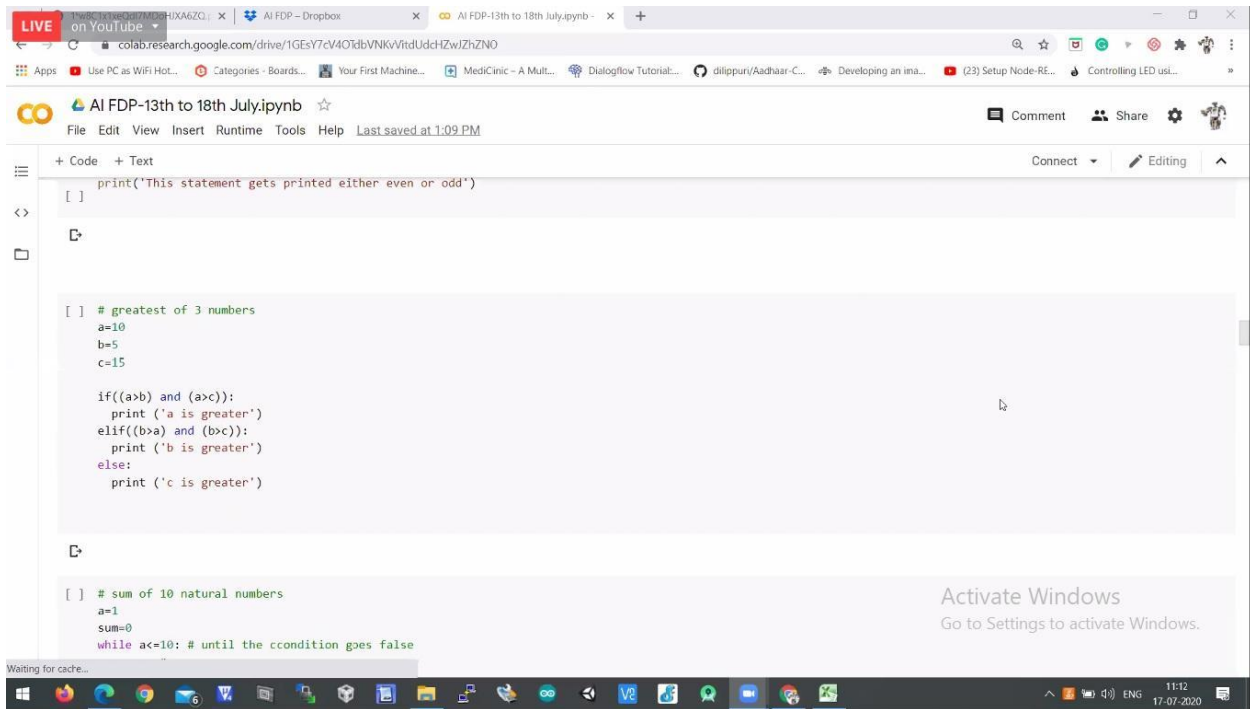


Fig.10 Regression hands on Session

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

Resource Person: Mr. Madhu Parvathaneni, CEO, mad Blocks 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 experts.

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

The screenshot shows a Google Colab notebook titled "AI FDP-13th to 18th July.ipynb". The notebook interface includes a menu bar (File, Edit, View, Insert, Runtime, Tools, Help) and a toolbar with options like "+ Code", "+ Text", "RAM", and "Disk". The code editor shows a list of Python modules and a line graph. The graph is titled "Multiple Linear Regression" and shows a positive linear relationship between "Years of Experience" (x-axis, 4.0 to 7.0) and an unlabeled y-axis (60000 to 70000). Below the graph is a table with columns for "R&D Spend", "Administration", "Marketing Spend", "State", and "Profit".

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

Fig.11 Logistic Regression, Support Vector Regression and K-Nearest Neighbors

```

# 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")

```

Fig.12 Linear regression Model

**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. Karimisetty 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 Institute 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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### One Week National Level Online Faculty Development Programme

On

## Artificial Intelligence

13th to 18th July 2020

Organized by

### Computer Science & Engineering



**Registration fee  
199/-  
Only**

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**In Association with**



**madBlocks**



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INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of HRD Initiative)

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

**REGISTER HERE**





## Feedback form:

**DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
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Phone: 08924-221111/221122/9965981111, E-Mail: info@diet.edu.in, Web: www.diet.edu.in

**FACULTY FEEDBACK FORM**

Program Name: \_\_\_\_\_  
Venue: \_\_\_\_\_  
Participant name: \_\_\_\_\_  
Designation & department: \_\_\_\_\_

The venue and facilities appropriateness	Excellent	Good	Above average	Average
How are the refreshments				
If possible, how was the lunch?				

Suggestion: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sign of Co-ordinator \_\_\_\_\_ Sign of HOD \_\_\_\_\_

## Sample Certificate:



## Feedback analysis and ATR:

Analysis of Faculty's Feedback Following areas of concern were identified in terms of disagreements :

- 1) Faculty requested to conduct FDP on trending topics based on new subjects in the curriculum.

2) Already management is providing incentives for results but if any appreciation given means it will be good

**ATR:**

Regarding 1: faculty were interested in advanced topics on this topic

Regarding 2: rather than theory faculty requested to have a workshop in a practical way with advanced topics.

**Conclusion:**

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.