



# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

**A NAAC Accredited Institute**

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)

---

## CIRCULAR

Anakapalle

Dt: 25-10-2022

Department of Computer Science and Engineering is hereby informed that, in view of the feedback received from III B.Tech students of CSE branch regarding skill enhancement and to improve the expertise of students in IBM Python for Data Science, HOD is advised to depute a faculty from CSE to design and develop a suitable course structure in line with advanced topics of IBM python for Data Science for working on real time applications III B.Tech. students of CSE branch with over 30 working hours. Please ensure that this Add-on course helps them to understand the basics of IBM Python for Data Science. Make arrangements to deliver the course from next week onwards.

**PRINCIPAL**



# Dadi Institute of Engineering & Technology

Approved by AICTE & Permanently Affiliated to JNTUK

NAAC Accredited Institute & Inclusion u/s 2(f) & 12(B) of the UGC Act

An ISO 9001:2015, ISO 14001:2015 & ISO 45001: 2018

Visakhapatnam-531002, Andhra Pradesh, [diet.edu.in](http://diet.edu.in)

Department of Computer Science and Engineering  
Conducted Certification Course on  
“IBM Python for DATA SCIENCE”

01-11-2022 to 30-11-2022

Course Instructor

Dr.L.Prasanna Kumar

Associate Professor, Dept of CSE

Venue: Blended Mode

## **About the Institute:**

Dadi Institute of Engineering and Technology is a top ranked Engineering and Management Institute affiliated to Jawaharlal Nehru Technological University, Kakinada. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering, Technology and Management.

It strives to promote the highest standards among the students and enable them to Build a New World. Dadi Institute of Engineering & Technology is distinctive among institutions of higher learning. Founded in 2006 by Sri Dadi Veerabhadra Rao, an academician and former Minister as the first multicultural and co- educational college in Anakapalle which admits only academically promising students.

## **About CSE Department:**

The Department of CSE was established in the year 2006. It offers B.Tech. Program with an initial intake of 180. It also offers M.Tech. Program in Computer Science and Engineering. The department has good infrastructural facilities with full fledged laboratories equipped with adequate hardware and software. The faculty members are actively involved in research and are publishing papers in reputed national and international journals/conferences.

## **About the course:**

The IBM Data Science Professional certificate is an online certification program delivered by IBM professionals that helps students to build job-ready skills and start a career as a data analysts. The course is 100% online and it's suitable for people who have no prior experience with data analytics or a related degree.

This certificate is for people who want to start a career in data analysis and data science. Data science jobs are high in demand now and according to several job studies

This certification covers both the theoretical and practical aspects of data science and analysis. Three out of the 10 courses are theoretical and the rest (seven courses) are practical.



# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

**A NAAC Accredited Institute**

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)

## Computer Science and Engineering

### IBM Python for Data Science

#### **Course Instructor:**

Dr.L.Prasanna Kumar

Associate Professor, CSE Department

Dadi Institute of Engineering & Technology

#### **Duration:**

---

4 Weeks: (01/11/2022 – 30/11/2022)

#### **Overview & Need for the Course:**

Students are instructed to learn the basics of IBM python for Data Science in this course. However they need to learn some advanced topics for working on real time applications. The course covers content required to develop basic projects on IBM Python for Data Science.

#### **Course Objectives: To**

- Understand the basic basics of Python for Data Science.
- Provide knowledge on Python for Data Science mechanisms.
- Develop the skill required to handle large amounts of data.

#### **Course Outcomes:**

- What data science is how it works
- What do data scientists/analysts do on a daily basis?
- How to use Python to perform data analysis
- How to work with SQL data sets and various visualization tools
- What is machine learning and how to use ML for data analysis
- How to use tools like Jupyter, GitHub, R Studio, and Watson Studio

- How to work with various data libraries including Pandas, NumPy, Matplotlib, Seaborn, Folium, ipython-sql, Scikit-learn, SciPy, etc.

### **Course Contents:**

- How to create dashboards and interactive reports
- What is Data Science?
- Tools for Data Science
- Data Science Methodology
- Python for Data Science, AI & Development
- Python Project for Data Science
- Databases and SQL for Data Science with Python
- Data Analysis with Python
- Data Visualization with Python
- Machine Learning with Python
- Applied Data Science Capstone

## LIST OF PARTICIPANTS:

**Department of Computer Science and Engineering:**

**CSE-A,B,C**

S.No.	HT.No	StudentName
1	20U41A0501	KOLNATI PAVAN SAI KUMAR
2	20U41A0502	GANISETTI MANASA
3	20U41A0503	PAMU GAYATRI
4	20U41A0504	POOJA KUMARI
5	20U41A0505	KANDRAKOTA VENKATA SAI KUMAR
6	20U41A0506	BALLA DILIP
7	20U41A0507	KANIGIRI VINAY
8	20U41A0508	SURADA RAJU
9	20U41A0509	PUSARLA VENKATA ABHILASH
10	20U41A0510	SISTI SAI
11	20U41A0511	GONNA NANDA KISHOR
12	20U41A0512	GORLA NAVYA SATYA SAI SRI LAKSHMI
13	20U41A0513	SAPPA LAHARI
14	20U41A0514	DHARMIREDDI HEMASREE
15	20U41A0515	PAILA YASWATHI
16	20U41A0516	CHEKURI TEJASWINI VARMA
17	20U41A0517	MUPPALA LAVANYA
18	20U41A0518	BOYINA LIKHITHA
19	20U41A0519	GORLI CHANDRAKALA
20	20U41A0520	DUVVI V S SARVANI PRAVALLIKA
21	20U41A0521	KONATHALA LALINI
22	20U41A0522	CHERUKURI NAGA SAI PRASANTHI

23	20U41A0523	PREETHI KUMARI SHA
24	20U41A0524	MOLLI KIRANMAYE
25	20U41A0525	PENTAKOTA SAI SRI LAKSHMI
26	20U41A0526	VARANASI SAI PHANEENDRA
27	20U41A0527	KASIREDDY SAI PRASOONA
28	20U41A0528	DODDI PURUSHOTHAM
29	20U41A0529	MENDA BINDHU MADHAVI
30	20U41A0530	SANAPATHI DEEPTHI
31	20U41A0531	DODDI HARSHAVARDHAN
32	20U41A0532	KOTNI PRAVALLIKA
33	20U41A0533	KARANAM HEMALATHA
34	20U41A0534	YALAMANCHILI DIVYA
35	20U41A0535	MADDALA THARUN RAMA APPAL NAIDU
36	20U41A0536	PALIVELA AJAY SATYA SAI PAVAN
37	20U41A0537	ALLA MAHITHA SRI VARSHINI
38	20U41A0538	MANDA KIRAN KUMAR
39	20U41A0539	RAJANA TEJA
40	20U41A0540	ALLU VENKATARAMANA
41	20U41A0541	MATTHURTHI NAGALAKSHMI
42	20U41A0542	MOTURI MANIDEEPAK
43	20U41A0543	KARRI HARSHITHA
44	20U41A0544	BODDAPU BHARGAVI
45	20U41A0545	BHEESETTY TEJASWINI
46	20U41A0546	GANAPATHIRAJU PRAVALLIKA
47	20U41A0547	KATADA SANTHOSH
48	20U41A0548	PENTAKOTA LOKESH
49	20U41A0549	POLAMARASETTY DUNDI SAI LAKSHMI
50	20U41A0550	YELLANKULA SAI MANOJ



51	20U41A0551	KADALI DILEEP KUMAR
52	20U41A0552	PILLA D S S L PADMAVATHI
53	20U41A0553	BOLLAPRAGADA SRI TEJA
54	20U41A0554	DANTHULURI SAATHVIKA
55	20U41A0555	MATALA MANIKANTA
54	20U41A0556	LALAM DHANA LAKSHMI
55	20U41A0557	REVADI KIRAN KUMAR
56	20U41A0558	KOLLI SUMANTH
57	20U41A0559	RONGALI SHUSHMA
58	20U41A0560	KOLA TEJA
59	20U41A0561	BODDEDA BHAVITHA
60	20U41A0562	LATCHUPATULA JATHIN SAI
61	20U41A0563	GOLLAVILLI BHAVANA
62	20U41A0564	REDDY CHANDRA SEKHAR
63	20U41A0565	SIRASAPALLI SAI ADARSH
64	20U41A0566	POOSARLA LAKSHMI
65	20U41A0567	KONA LALITH KUMAR
66	20U41A0568	ADARI JAHANAVI
67	20U41A0569	KILLAMPALLI AKHILA
68	20U41A0571	VEESAM VENKATA PRAVEEN
69	20U41A0572	NAKKA MOUNIKA
70	20U41A0573	KANDREGULA VARSHA SRI
71	20U41A0574	KOLATI BHAGYA SRI
72	20U41A0575	YELLAPU YASASVI
73	20U41A0576	YANAMALA RAMBABU
74	20U41A0577	KANDREGULA MADHURI LATHA
75	20U41A0578	AMARAPALLI RENUKA GOWTHAMI
76	20U41A0579	ALLIPILLI SHALINI

77	20U41A0580	ADARI KUSUMA
78	20U41A0581	JERRIPOTHULA RAMYA
79	20U41A0582	INDUGU VAMSI
80	20U41A0583	PENTAKOTA ANIL KUMAR
81	20U41A0584	KANDREGULA GYANA PRASANNA
82	20U41A0585	KUDUPUDI DIVYA SREE
83	20U41A0586	GANNEM PRAJNA JYOTHI
84	20U41A0587	VOOKA SATYA PRATYUSHA
85	20U41A0588	BUDDHA KULWANTH KUMAR
86	20U41A0589	GALI LAKSHMISAI
87	20U41A0590	PASUMARTHI VENKATA PRAVEEN
88	20U41A0591	ADARI MANOJ KUMAR
89	20U41A0592	KARANAM SAI VARAHA MOUNIKA
90	20U41A0593	DASARI LIKHITA SREE
91	20U41A0594	TUSHAR HIRAWATH
92	20U41A0595	RAIDI LOKESH
93	20U41A0596	GEDALA DURGA BHAVANI
94	20U41A0597	ERLA PREM KUMAR
95	20U41A0598	SHAIK NAZEER
96	20U41A0599	KALLURI GNANESWAR
97	20U41A05A0	AKULA SRINIVASA RAO
98	20U41A05A1	VILLURI USHA SRIJA
99	20U41A05A2	PENTAKOTA VENKATESWAR RAO
100	20U41A05A3	GONNA NAVEEN KUMAR
101	20U41A05A4	RAMISETTI JASWANTHI
102	20U41A05A5	KOLLURU SANDHYA RANI
103	20U41A05A6	KEELU KUSUMA
104	20U41A05A7	NAMMI NIKHITA

105	20U41A05A8	SURAMPUDI VENKATA TEJASWINI
106	20U41A05A9	ROUTHU DURGA PRASAD
107	19U41A0568	PILLA RANI
108	20U41A05B0	CHOWDARY SRIDHAR
109	20U41A05B1	REDDY VASANTHA DEVI
110	20U41A05B2	JAGAN SAI POLIMERA
111	20U41A05B3	BOLLU MADHURYA
112	20U41A05B4	GIDIJALA JANAKI RAM
113	20U41A05B5	KOMMOJU HEMALATHA
114	20U41A05B6	REYYA MOUNIKA
115	20U41A05B7	GOTTAPU SIVA PRASAD
116	20U41A05B8	MUDUNURU SAI YASWANTH
117	20U41A05B9	KALLA HEMANTH SAI HARSHAVARDHAN
118	20U41A05C0	BODDUPALLI SOWJANYA KUMAR
119	20U41A05C1	ALLADA DHANUNJAY
120	20U41A05C2	NIMMADALA UDAY KIRAN
121	20U41A05C4	DEVATA CHANDINI
122	20U41A05C5	PAVADA NAGA CHANDRA SEKHAR
123	20U41A05C6	KANDREGULA PREETHAM
124	20U41A05C7	BHEEMUNI DILIP KUMAR
125	20U41A05C8	VASUPALLI LAKSHMAN
126	20U41A05C9	KALINGARAYA SONIYA
127	20U41A05D0	YELLAPRAGADA KRISHNA PRASAD
128	20U41A05D1	CHERUGONDI NIKHILA
129	20U41A05D2	LAKKOJI YAGNESH
130	20U41A05D4	KANCHUMOJU LATHA RANI
131	20U41A05D5	GANDEPALLI SANDEEP
132	20U41A05D6	VILLURI JAYASRI

133	20U41A05D7	KADAVALA BHAVANI
134	20U41A05D8	BAKURU BHANU PRAKASH RAJU
135	20U41A05D9	YEDIDA HARSHA SRI VARDHAN
136	21U45A0501	SURISSETTY CHANDRASEKHAR
137	21U45A0502	DODDI PAVAN KUMAR
138	21U45A0503	PALISSETTI TEJA
139	21U45A0504	KOTNI SURYA LOHITH
140	21U45A0505	PAPPU SAI KUMAR
141	21U45A0506	SUNDARAPU HEAMTNH VARA SAI
142	21U45A0507	KARRI HARISH
143	21U45A0508	DADI ABHI
144	21U45A0509	DODDI GANESH
145	21U45A0510	BARU SAI KUMAR
146	21U45A0511	MADDALA GANESH KUMAR
147	21U45A0512	HANUMALASETTY HEMANTH KUMAR
148	21U45A0513	VIROTHI LAXMAN SAI KIRAN
149	21U45A0514	KORUKONDA MOUNIKA
150	21U45A0515	ADAPA VARUN VISWA TEJA
151	21U45A0516	MADUTHURU GANESH
152	21U45A0517	YELAMANCHILI KARTHIK
153	21U45A0518	INDUKURI SATYANAND
154	21U45A0519	CHADARAM C N S MANIKANTA KUMAR

**Total No.of Students Participated:154**

# Classroom:

The screenshot displays the MATLAB R2014a environment. The main window is titled "Editor - C:\Users\MALLA KISHORE KUMAR\Desktop\Matlab\mytask\_2.m". The script contains the following code:

```
1 - clc;
2 - clear all;
3 - close all;
4 - img = imread('boston night.JPG');
5 - % Enter your code below
6 - img1=rgb2gray(img);
7 - imshow(img1);
8 - img2=double(img1);
9 - img3=img2.^1.5;
10 - figure
11 - imshow(img3);
12 - img4=imrotate(img3,-1);
13 - figure
14 - imshow(img4);
15 - img5=cast(img4,'uint8');
16 - %imgAdjusted=img(1:3456,1:5184);
```

The Workspace window shows the following variables:

Name	Value	Min	Max
img	3456x5184x3 uint8	<Too ...	<Too ...
img1	3456x5184 uint8	<Too ...	<Too ...
img2	3456x5184 double	<Too ...	<Too ...
img3	3456x5184 double	<Too ...	<Too ...
img4	3549x5245 double	<Too ...	<Too ...
img5	3549x5245 uint8	<Too ...	<Too ...

The Command Window shows the following output:

```
In mytask_2 at 7
Warning: Image is too big to fit on screen; displaying at 13%
> In imuitools/private/initSize at 71
In imshow at 282
In mytask_2 at 11
Warning: Image is too big to fit on screen; displaying at 13%
> In imuitools/private/initSize at 71
In imshow at 282
In mytask_2 at 14
```



**DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**Approved by AICTE & Affiliated to JNTUK,**

**A NAAC Accredited Institute**

**An ISO 9001:2015, ISO 14001:2015 & ISO 45001: 2018**

**Four Weeks Training Program**

**On**

**IBM Python for Data Science**

**(01-11-2022 to 30-11-2022)**

**CERTIFICATE OF PARTICIPATION  
IS PRESENTED TO**

---

for his/her successful participation in the Four Weeks Training Program On IBM Python for Data Science Organized by Department of CSE, DIET.

**HOD  
CSE**

**Principal  
DIET**

**Chairman  
DIET**

**Feedback form:**