



R K COLLEGE OF ENGINEERING

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Kethanakonda (V), Ibrahimpatnam (M), Vijayawada, AMARAVATI-521456.

Date:21-08-2023

To,
ThePrincipal
RKCollegeof Engineering.

ThroughHOD-AIML

Sub: Seeking permission to conduct Workshop on "DATA ANALYTICS WITH PYTHON".

Sir,

Respected Sir/Madam,

I am writing to seek your kind permission to organize a workshop on "DATA ANALYTICS WITH PYTHON" which aims to introduce the participants to the fundamentals of DATA ANALYTICS WITH PYTHON, its significance in modern software development, and the practices that can help streamline the development and operations processes.

We kindly request your approval to proceed with the planning and execution of this workshop, and we are happy to provide any further details as required. Thank you for considering our request. We look forward to your positive response.

Thanking you Sir

Yours Sincerely

D.SUDHA RANI
ASSISTANT PROFESSOR
CSE Dept.

Coordinator-IQAC
RKCE

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TWO-DAYWORKSHOPON

"DATA ANALYTICS WITH PYTHON"

Organizedby
Departmentof AI&ML Engineering
R K College of Engineering, Vijayawada

PROGRAMME FLOW – 25-08-2023.

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:00AMto 10:15AM	Mr.D.SUDHA RANI	Welcomespeech
10:15AMto 10:30AM	Mr.SK.SHABAAZ	IntroductionabouttheDA TA ANALYTICS WITH PYTHONprogram
10:30AMto 11:30AM	Dr.P.PAVAN KUMAR Associate professor KL UNIVERSITY Vijayawada Email: pavankumarklu@gmail.com PhoneNo: 9966733444	The Role of Automation in DATA ANALYTICS WITH PYTHON
11:30AMto 11:45	TEA BREAK	
11:45AMto 01:00 PM	Dr.P.PAVAN KUMAR Associate professor KL UNIVERSITY Vijayawada Email: pavankumarklu@gmail.com PhoneNo: 9966733444	Monitoring and Logging in DATA ANALYTICS WITH PYTHON.
01:00 PMto 02:00 PM	LUNCHBREAK	
02:00 PMto 03:30 PM	Dr.P.PAVAN KUMAR Associate professor KL UNIVERSITY Vijayawada Email: pavankumarklu@gmail.com PhoneNo: 9966733444	The Benefits and Challenges of Implementing DATA ANALYTICS WITH PYTHONin an Organization

Coordinator:Mrs D.SUDHA RANI

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TWO-DAYWORKSHOPON

"DATA ANALYTICS WITH PYTHON"

Organized by
Department of Electrical & Electronics Engineering
R K College of Engineering, Vijayawada

PROGRAMME FLOW – 26-08-2023

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:30AM to 11:30AM	Dr.P.PAVAN KUMAR Associate professor KL UNIVERSITY Vijayawada Email: pavankumarklu@gmail.com PhoneNo: 9966733444	ABOUT DATA ANALYTICS WITH PYTHON. Advantages and disadvantages of Devops
11:30AM to 11 : 45 AM	TEA BREAK	
11:45AM to 01:00 PM	Dr.P.PAVAN KUMAR Associate professor KL UNIVERSITY Vijayawada Email: pavankumarklu@gmail.com PhoneNo: 9966733444	The Future of DATA ANALYTICS WITH PYTHON: Integration with Artificial Intelligence and Machine Learning Introduction:
01:00 PM to 02:00 PM	LUNCH BREAK	
02:00 PM to 03:30 PM	Dr.P.PAVAN KUMAR Associate professor KL UNIVERSITY Vijayawada Email: pavankumarklu@gmail.com PhoneNo: 9966733444	Applications on DATA ANALYTICS WITH PYTHON:
03:30 PM to 04:00 PM	Feedback from the participants and vote of thanks by Mr.SK.SHABAAZ	

Coordinators :Mrs.D.SUDHA RANI

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Date-23-08-2023

REPORT ON TWO DAY WORKSHOP ON "DEVOPS"

Title: "DATA ANALYTICS WITH PYTHON:"

Expert: Dr. P. Pavan Kumar

Associate professor

KL UNIVERSITY.

VIJAYAWADA

Email: pavankumarklu@gmail.com

Phone No: 9966733444

Date: 25th & 26th August, 2023

Venue: Room Number G-3, SEMIONR HALL Engineering, RKCE.

Coordinators: Mr. SK. SHABAAZ

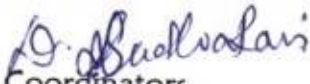
Mr. D. SUDHA RANI

Organized by: AI&ML ENGINEERING

Total Participants attended: 111

Detail of Participants: Students of III Year 1st semester.

Students of 3rd Year 1st semester have attended the workshop on Distributed Generation with full enthusiasm. Dr. P. Pavan Kumar has elaborately explained about the operation and advantages of DATA ANALYTICS WITH PYTHON. Also, he explained about the various types and applications of DATA ANALYTICS WITH PYTHON technology. The detailed topics are shown in program flow. This workshop was very useful as well as educative for the participants.


Coordinators


HOD-AI&ML


Coordinator-IQAC
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Student Attendance for Workshop on "DATA ANALYTICS WITH PYTHON"

S.NO	ROLL NO	STUDENT NAME	ATTENDANCE	
			DAY 1	DAY 2
1	21MC1A0501	ABDUL MOBEEN	P	P
2	21MC1A0503	ALLA VENKATA RAJESH	P	P
3	21MC1A0505	ANGA CHARAN RAJ	P	P
4	21MC1A0507	BAIREDLA SANJU NAIDU	P	P
5	21MC1A0509	BATTULA BALAKOTAIAH	P	P
6	21MC1A0511	BHUKYA VENKATESWARLU NAIK	P	P
7	21MC1A0514	BOMMIREDDY UMA MAHESWARI	P	P
8	21MC1A0517	CHELLUBOINA DILEEP	P	P
9	21MC1A0519	CHENNAMRAJU KEERTHI	P	P
10	21MC1A0521	DANDIBOINA VENKATA NANDINI	P	P
11	21MC1A0523	DASARI MEGHANA	P	P
12	21MC1A0526	DHANEKULA VENKATESH	P	P
13	21MC1A0528	EEVURI VIJAYA LAKSHMI	P	P
14	21MC1A0530	GAGGARA CHANDU Koushik	P	P
15	21MC1A0532	GHANTASALA YESU RAJU	P	P
16	21MC1A0533	GODINA VENKATA SAI SAHASRA	P	P
17	21MC1A0536	GOTHALA HARISH YADAV	P	P
18	21MC1A0539	JANAMALA HARI KRISHNA	P	P
19	21MC1A0541	JAVISETTY VAMSI KRISHNA	P	P
20	21MC1A0543	KADALI MOUNIKA	A	P
21	20MC1A0512	CHALLA ANUSHA	P	P
22	20MC1A0517	DANDU VENKATA CHALAPATHI	P	A
23	20MC1A0523	GALIPOTHULA	P	P

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23	20MC1A0523	GALIPOTHULA SANTHOSH KUMAR	P	P
24	20MC1A0528	GURRALA MOUNIKA	P	P
25	20MC1A0533	INUPANURTHI PUSHPA MADHURI	P	P
26	20MC1A0538	KARNATI SAI PRABHU	P	P
27	20MC1A0543	KATIKI BALAKRISHNA	A	P
28	20MC1A0547	KORAGANJI VENU KUMAR	A	P
29	20MC1A0554	MANAVASI SIVA KUMAR	P	A
30	20MC1A0558	MEKA ASWINI	P	A
31	20MC1A0569	PANTAPALLE BHARGAVI	P	A
32	20MC1A0563	NALLADIMMU VENKATA SUBBAREDDY	P	P
33	20MC1A0575	PONUGUPATI AJAY KUMAR	P	A
34	20MC1A0579	REDDEM VEERA SIVANJANEYA REDDY	P	P
35	20MC1A0586	SRIHARI MANNEPALLI	P	P
36	20MC1A0593	VUDIGA VINAY KUMAR	P	P
37	20MC1A05A0	KAMANABOINA CHARITHA	P	P
38	21MC5A0505	K L NARASIMHA BADRI ASHISH	P	P
39	21MC5A0509	NELLURI JEEVAN KUMAR	P	A
40	21MC5A0514	SHAIK IBRAHEEM	P	P
41	21MC1A0574	MOKA CHAKRAVARTHI	P	P
42	21MC1A0578	OBILLANENI TEJASWINI	P	P
43	21MC1A0583	PANTAPALLI BHUVANESWARI	P	P
44	21MC1A0587	PEMULA SUMANTH	P	A
45	21MC1A0592	POTHUGANTI APPARAO	P	b
46	21MC1A0596	R SREE VIDYA	P	A
47	21MC1A05A1	SAKAM RANGA SWAMY REDDY	P	P
48	21MC1A05A6	SHAIK UDAY	P	P

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49	21MC1A0512	BHUMA GANGADHAR NAIDU	P	P
50	21MC1A0518	CHENNADI KHYATHI	P	A
51	21MC1A0522	DARGA DINESH	P	P
52	21MC1A0525	DHANALAKOTA DENI SRILAKSHMI	P	P
53	21MC1A0502	ADAPA JEEVAN KUMAR	P	P
55	21MC1A0518	CHENNADI KHYATHI	P	A
56	21MC1A0522	DARGA DINESH	P	P
57	21MC1A0501	ABDUL MOBEEN	P	P
58	21MC1A0503	ALLA VENKATA RAJESH	P	P
59	21MC1A0505	ANGA CHARAN RAJ	P	P
60	21MC1A0507	BAIREDLA SANJU NAIDU	P	P
61	21MC1A0509	BATTULA BALAKOTAIAH	P	P
62	21MC1A0511	BHUKYA VENKATESWARLU NAIK	P	P
63	21MC1A0514	BOMMIREDDY UMA MAHESWARI	P	A
64	21MC1A0517	CHELLUBOINA DILEEP	P	P
65	21MC1A0519	CHENNAMRAJU KEERTHI	P	P
66	21MC1A0521	DANDIBOINA VENKATA NANDINI	P	P
67	21MC1A0523	DASARI MEGHANA	P	A
68	21MC1A0526	DHANEKULA VENKATESH	P	P
69	21MC1A0528	EEVURI VIJAYA LAKSHMI	P	P
70	21MC1A0530	GAGGARA CHANDU KOUSHIK	P	P
71	21MC1A0532	GHANTASALA YESU RAJU	P	P
72	21MC1A0533	GODINA VENKATA SAI SAHASRA	P	P
73	21MC1A0536	GOTHALA HARISH YADAV	P	P
74	21MC1A0539	JANAMALA HARI KRISHNA	P	A
75	21MC1A0541	JAVISETTY VAMSI KRISHNA	P	P

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76	21MC1A0543	KADALI MOUNIKA	P	A
77	20MC1A0512	CHALLA ANUSHA	P	P
78	20MC1A0517	DANDU VENKATA CHALAPATHI	P	P
79	20MC1A0523	GALIPOTHULA SANTHOSH KUMAR	P	P
80	20MC1A0528	GURRALA MOUNIKA	P	A
81	20MC1A0533	INUPANURTHI PUSHPA MADHURI	P	A
82	20MC1A0538	KARNATI SAI PRABHU	P	P
83	20MC1A0543	KATIKI BALAKRISHNA	P	P
84	20MC1A0547	KORAGANJI VENU KUMAR	P	P
85	20MC1A0554	MANAVASI SIVA KUMAR	P	P
86	20MC1A0558	MEKA ASWINI	P	P
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88	20MC1A0563	NALLADIMMU VENKATA SUBBAREDDY	P	P
89	20MC1A0575	PONUGUPATI AJAY KUMAR	P	P
90	20MC1A0579	REDDEM VEERA SIVANJANEYA REDDY	P	P
91	20MC1A0586	SRIHARI MANNEPALLI	P	P
92	20MC1A0593	VUDIGA VINAY KUMAR	P	P
93	20MC1A05A0	KAMANABOINA CHARITHA	P	P
94	21MC5A0505	K L NARASIMHA BADRI ASHISH	P	A
95	21MC5A0509	NELLURI JEEVAN KUMAR	P	A
96	21MC5A0514	SHAIK IBRAHEEM	P	A
97	21MC1A0574	MOKA CHAKRAVARTHI	P	P
98	21MC1A0578	OBILLANENI TEJASWINI	P	P
99	21MC1A0583	PANTAPALLI BHUVANESWARI	P	P
100	21MC1A0587	PEMULA SUMANTH	P	P
101	21MC1A0592	POTHUGANTI APPARAO	P	P

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102	21MC1A0596	R SREE VIDYA	P	P
103	21MC1A05A1	SAKAM RANGA SWAMY REDDY	P	P
104	21MC1A05A6	SHAIK UDAY	P	P
105	21MC1A0512	BHUMA GANGADHAR NAIDU	P	P
106	21MC1A0518	CHENNADI KHYATHI	P	P
107	21MC1A0522	DARGA DINESH	P	P
108	21MC1A0525	DHANALAKOTA DENI SRILAKSHMI	P	P
109	21MC1A0502	ADAPA JEEVAN KUMAR	P	P
110	20MC1A0506	BHIMIREDDI LOVA SATISH	P	P
111	21MC1A0518	CHENNADI KHYATHI	P	P
112	21MC1A0522	DARGA DINESH	P	P
113	22MC1A4401	ANKIREDDYPALLI BHAIRAVANADHA REDDY	P	P
114	22MC1A4402	AREVARAPU BHAVYA SREE	P	P
115	22MC1A4403	BATTHALA SIDDHARTHA	P	A
116	22MC1A4404	BEMISITTY SATHWIK	P	P
117	22MC1A4405	BOMMU KIRAN KUMAR REDDY	P	P
118	22MC1A4406	CHALLA MEGHANA	P	A
119	22MC1A4407	CHALLAGUNDLA PAVANI PRUDHVILA	P	P
120	22MC1A4409	CHAVA SEETHARAM CHOWDARY	P	P
121	22MC1A4410	DASU CHARAN TEJA	P	P
122	22MC1A4413	GANACHARI NAGA VENKATESH	P	P
123	22MC1A4414	JAKKULA LEELA SRIDHAR	P	A
124	22MC1A4415	JIDDU KALYANI	P	P
125	22MC1A4417	KASIREDDY ABILASH	P	P

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Resource Person Profile

Presently working as Associate Professor of AI & ML ENGINEERING Department at AI&ML from JUNE 2021 (Responsibilities: Teaching UG and PG Students of Electrical & Electronics Engineering and performing the works assigned by Principal). Having 10 years of Teaching and 5 years of Research consultancy in AI & ML ENGINEERING.

INTRODUCTION ABOUT DATA ANALYTICS WITH PYTHON:

The topic of this workshop is DATA ANALYTICS WITH PYTHON and Introduction on DATA ANALYTICS WITH PYTHON. The objective of this workshop is to provide an overview of the current practices to connect Embedded Distributed Generators i.e., solar, wind, geothermal, etc. to the distribution grid. Also, this workshop will discuss the successes and challenges of new advances in technology in the Smart Grid.

Why DATA ANALYTICS WITH PYTHON?

Data analytics with Python has become one of the most popular and widely used combinations in the field of data science. There are several reasons why Python is particularly well-suited for data analytics, making it the go-to language for data professionals across various industries. Here's why data analytics with Python is so powerful and important:

1. Ease of Learning and Use
2. Rich Ecosystem of Libraries and Frameworks
3. Flexibility across Applications
4. Open-Source and Free
5. Extensive Integration Capabilities

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Date: 21-08-2023

To
Dr.P.PAVAN KUMAR
Associate Professor
KL UNIVERSITY.
Vijayawada.

Sir,

Subject: Request invitation for delivering expert lecture Two-day workshop on
"DATA ANALYTICS WITH PYTHON" on dates 25-08-2023&26-08-2023-
Reg.

Respected Sir,

The department of AI&ML,RKCE, Kethanakonda (V),Ibrahimpatnam(M), Andhra Pradesh is organizing a two-days Workshop on Advancement in AI&ML. during 25-08-2023&26-08-2023. I am happy to invite you as a Resource Person. I request you to accept the invitation and arrange to send the relevant study material so as to include in the course book.

Thanking You,

Yours Sincerely

SK.SHABAAZ
HOD-AI&ML

Coordinator-IQAC
RKCE

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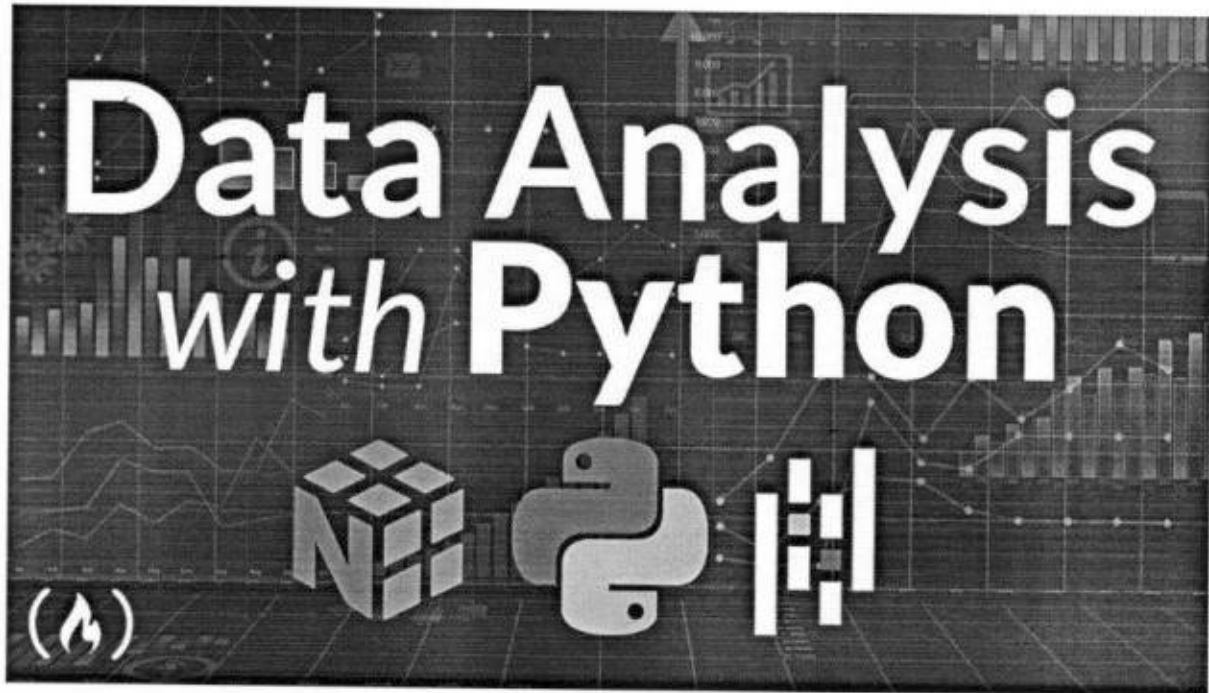


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REPORT ON DEVOPS



About DATA ANALYTICS WITH PYTHON

Data Analytics with Python refers to the use of Python programming language and its powerful ecosystem of libraries and tools to process, analyze, and visualize data. Python has become one of the most popular languages for data analysis due to its simplicity, versatility, and extensive support for various analytical tasks.

What is Data Analytics?

Data analytics involves examining data sets to uncover hidden patterns, correlations, trends, and insights. This process enables organizations to make informed decisions, improve operational efficiency, and predict future outcomes. Data analytics can be applied across industries like finance, healthcare, marketing, sports, and more.

Why Use Python for Data Analytics?

1. **Ease of Learning and Use:** Python's syntax is simple, intuitive, and close to natural language, making it accessible for beginners and experienced developers alike. It is often recommended as the first language to learn for data science.
2. **Large Ecosystem of Libraries:** Python offers a rich set of libraries specifically designed for data analytics, machine learning, and data visualization. Some of the most commonly used libraries.

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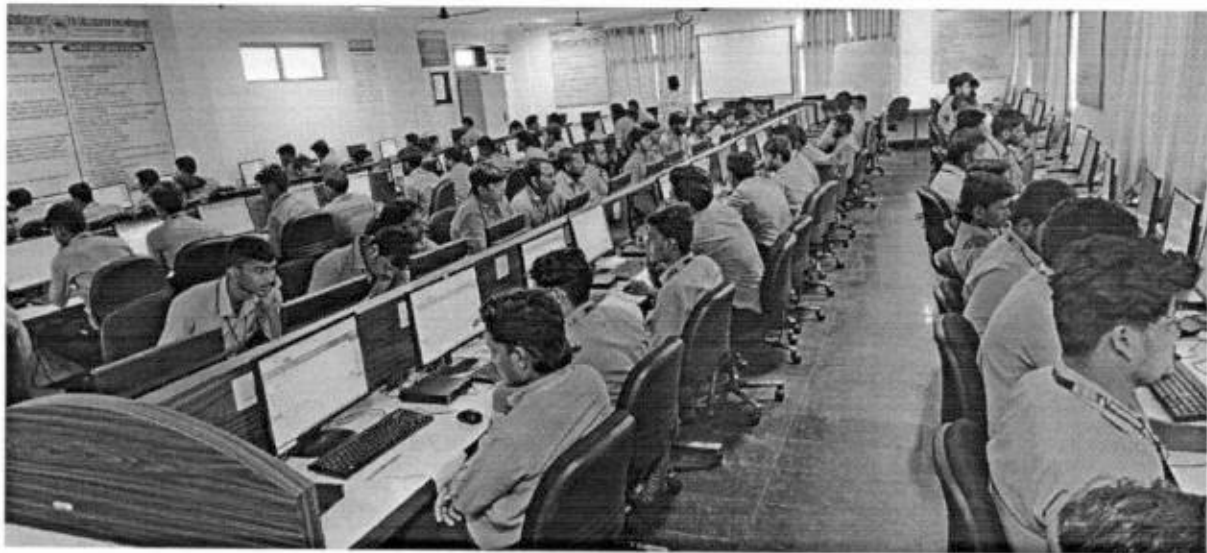
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Data analytics with Python involves a variety of techniques that help in extracting meaningful insights from data. Here are some of the key techniques used in data analytics with Python:

1. Data Collection and Preprocessing

- **Data Collection:** Using libraries like pandas, requests, beautifulsoup4, and APIs to collect data from various sources like web scraping, databases, and external files.
- **Data Cleaning:** Handling missing data, duplicates, and inconsistent data. Libraries like pandas and numpy are used for imputation, removal, or replacement of missing values.
- **Data Transformation:** Transforming raw data into a usable format using techniques like normalization, encoding categorical variables, or scaling numeric values with libraries like scikit-learn.

2. Exploratory Data Analysis (EDA)

- **Descriptive Statistics:** Getting an initial understanding of the data using mean, median, mode, variance, and standard deviation with pandas and numpy.
- **Data Visualization:** Plotting graphs and charts to identify patterns, trends, and anomalies in data. Libraries like matplotlib, sea born, and platy are used for histograms, scatter plots, box plots, and more.
- **Correlation Analysis:** Analyzing the relationship between variables using heat maps and correlation matrices.

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Data and Analytics



Here's how distributed generation might lead to negative impacts on DATA ANALYTICS WITH PYTHON:

Distributed generation (DG) refers to the decentralization of power generation through small-scale energy sources like solar panels, wind turbines, and microgrids. While it offers many benefits, such as reducing energy transmission losses and enhancing energy independence, it could lead to negative impacts on data analytics with Python, particularly in the energy sector, in the following ways:

1. Data Complexity and Volume

Distributed generation systems generate large amounts of data from various small-scale sources. This data may include performance metrics, energy generation levels, storage status, and weather conditions. Managing and processing such vast amounts of data can create challenges in Python data analytics, particularly in terms of:

- **Data Quality:** The data generated may be noisy or incomplete, especially if sensors or data collection systems are unreliable.
- **Data Integration:** Combining data from a variety of sources (solar, wind, batteries, etc.) with potentially different formats and timestamps can create difficulties when trying to integrate and analyze the data.

2. Increased Data Variability and Uncertainty

Energy production from distributed sources like solar or wind can be highly variable and weather-dependent. This introduces uncertainty in the data that could affect predictive modeling and analysis:

- **Forecasting Challenges:** Predicting energy demand, generation, and consumption patterns becomes more complicated when the energy sources are decentralized and subject to frequent fluctuations.
- **Uncertainty in Analytics:** Standard time series forecasting or machine learning models could struggle to provide accurate results due to high variability and the need to account for external factors like weather conditions, which can be difficult to model accurately.

3. Real-Time Data Processing Requirements

Distributed generation systems may require real-time data analytics to optimize energy flow, demand-response systems, and grid stability.

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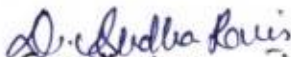
analytics tools may face limitations in handling high-frequency, real-time data streams due to:

- Latency Issues: Python might not be the best language for real-time, low-latency processing of high-frequency data streams, especially without optimizations or dedicated frameworks.
- Scalability Problems: As the number of distributed energy resources increases, the ability to scale Python-based analytics solutions to process vast amounts of real-time data may become challenging.

4. Grid Integration and Data Synchronization

Distributed generation requires synchronization with the broader electrical grid. This synchronization involves complex data management and analysis, which can cause challenges:

- Data Integration with the Grid: Python may struggle to integrate data from different distributed generation units and traditional centralized grid systems, especially when communication protocols are not standardized.
- Grid Stability Modeling: Analyzing the stability of a grid that incorporates a mix of centralized and distributed generation requires sophisticated modeling that can be computationally expensive and difficult to implement in Python, especially when working with large datasets


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Website: www.rkce.in



Certificate



This is to certify that Mr./ Ms. K. Mousta

has Successfully completed a Course / Workshop / Seminar on "Date Analytics

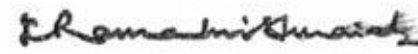
with pattern" from 25/08/2023 to 26/08/2023

in association with VXL at RK College of Engineering.


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Feedback form for Two days work shop on "DATA ANALYTICS WITH PYTHON"

* (0-Low, 5 High)

Sl. No.	Hall Ticket Number	Information was new to you? (Yes/No)	Would you like to learn more about this topic? (Yes/No)	Rate* the Speaker Knowledge.	Rate* the Speaker presentation.	Rate* the content of slides.	Rate* the session compared to your expectations.	Rate* the Overall session	Additional comments
1	21MC1A0501	Yes	Yes	5	5	5	5	5	good
2	21MC1A0503	Yes	Yes	5	5	5	5	5	good
3	21MC1A0505	Yes	Yes	5	5	5	5	5	good
4	21MC1A0507	Yes	Yes	5	5	5	5	5	good
5	21MC1A0509	Yes	Yes	5	5	5	5	5	good
6	21MC1A0511	Yes	Yes	5	5	5	5	5	good
7	21MC1A0514	Yes	Yes	5	5	5	5	5	good
8	21MC1A0517	Yes	Yes	5	5	5	5	5	good
9	21MC1A0519	Yes	Yes	5	5	5	5	5	good
10	21MC1A0521	Yes	Yes	5	5	5	5	5	good
11	21MC1A0523	Yes	Yes	5	5	5	5	5	good
12	21MC1A0526	Yes	Yes	5	5	5	3	5	good
13	21MC1A0528	Yes	Yes	5	5	5	5	5	good
14	21MC1A0530	Yes	Yes	5	5	5	4	5	good
15	21MC1A0532	Yes	Yes	5	5	5	4	5	good

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16	21MC1A0533	yes	yes	5	5	5	5	5	good
17	21MC1A0536	yes	yes	5	5	5	5	5	good
18	21MC1A0539	yes	yes	5	5	5	5	5	good
19	21MC1A0541	yes	yes	5	5	5	5	5	good
20	21MC1A0543	yes	yes	5	5	5	5	5	good
21	20MC1A0512	yes	yes	5	5	5	5	5	good
22	20MC1A0517	yes	yes	5	5	5	5	5	good
23	20MC1A0523	yes	yes	5	5	5	5	5	good
24	20MC1A0528	yes	yes	5	5	5	5	5	good
25	20MC1A0533	yes	yes	5	5	5	5	5	good
26	20MC1A0538	yes	yes	5	5	5	5	5	good
27	20MC1A0543	yes	yes	5	5	5	5	5	good
28	20MC1A0547	yes	yes	5	5	5	5	5	good
29	20MC1A0554	yes	yes	5	5	5	5	5	good
30	20MC1A0558	yes	yes	5	5	5	5	5	good
31	20MC1A0569	yes	yes	5	5	5	5	5	good
32	20MC1A0563	yes	yes	5	5	5	5	5	good
33	20MC1A0575	yes	yes	5	5	5	5	5	good
34	20MC1A0579	yes	yes	5	5	5	5	5	good

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35	20MC1A0586	yes	yes	5	5	5	5	5	good
36	20MC1A0593	yes	yes	5	5	5	5	5	good
37	20MC1A05A0	yes	yes	5	5	5	5	5	good
38	21MC5A0505	yes	yes	5	5	5	5	5	good
39	21MC5A0509	yes	yes	5	5	5	5	5	good
40	21MC5A0514	yes	yes	5	5	5	5	5	good
41	21MC1A0574	yes	yes	5	5	5	5	5	good
42	21MC1A0578	yes	yes	5	5	5	5	5	good
43	21MC1A0583	yes	yes	5	5	5	5	5	good
44	21MC1A0587	yes	yes	5	5	5	5	5	good
45	21MC1A0592	yes	yes	5	5	5	5	5	good
46	21MC1A0596	yes	yes	5	5	5	5	5	good
47	21MC1A05A1	yes	yes	5	5	5	5	5	good
48	21MC1A05A6	yes	yes	5	5	5	5	5	good
49	21MC1A0512	yes	yes	5	5	5	5	5	good
50	21MC1A0518	yes	yes	5	5	5	5	5	good
51	21MC1A0522	yes	yes	5	5	5	5	5	good
52	21MC1A0525	yes	yes	5	5	5	5	5	good
53	21MC1A0502	yes	yes	5	5	5	5	5	good

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55	21MC1A0518	yes	yes	5	5	5	5	5	Good
56	21MC1A0522	yes	yes	5	5	5	5	5	
57	21MC1A0501	yes	yes	5	5	5	5	5	Excellent
58	21MC1A0503	yes	yes	5	5	5	5	5	Good
59	21MC1A0505	yes	yes	5	5	5	5	5	Good
60	21MC1A0507	yes	yes	5	5	5	5	5	Excellent
61	21MC1A0509	yes	yes	5	5	5	5	5	Good
62	21MC1A0511	yes	yes	5	5	5	5	5	Good
63	21MC1A0514	yes	yes	5	5	5	5	5	Excellent
64	21MC1A0517	yes	yes	5	5	5	5	5	Good
65	21MC1A0519	yes	yes	5	5	5	5	5	Good
66	21MC1A0521	yes	yes	5	5	5	5	5	Good
67	21MC1A0523	yes	yes	5	5	5	5	5	Good
68	21MC1A0526	yes	yes	5	5	5	5	5	Good
69	21MC1A0528	yes	yes	5	5	5	5	5	Excellent
70	21MC1A0530	yes	yes	5	5	5	5	5	Good
71	21MC1A0532	yes	yes	5	5	5	5	5	Excellent
72	21MC1A0533	yes	yes	5	5	5	5	5	Good
73	21MC1A0536	yes	yes	5	5	5	5	5	Excellent

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74	21MC1A0539	Yes	Yes	5	5	5	5	5	Good
75	21MC1A0541	Yes	Yes	5	5	5	5	5	Good
76	21MC1A0543	Yes	Yes	5	5	5	5	5	Good
77	20MC1A0512	Yes	Yes	5	5	5	5	5	Good
78	20MC1A0517	Yes	Yes	5	5	5	5	5	Good
79	20MC1A0523	Yes	Yes	5	5	5	5	5	Good
80	20MC1A0528	Yes	Yes	5	5	5	5	5	Good
81	20MC1A0533	Yes	Yes	5	5	5	5	5	Good
82	20MC1A0538	Yes	Yes	5	5	5	5	5	Good
83	20MC1A0543	Yes	Yes	5	5	5	5	5	Good
84	20MC1A0547	Yes	Yes	5	5	5	5	5	Good
85	20MC1A0554	Yes	Yes	5	5	5	5	5	Good
86	20MC1A0558	Yes	Yes	5	5	5	5	5	Good
87	20MC1A0569	Yes	Yes	5	5	5	5	5	Good
88	20MC1A0563	Yes	Yes	5	5	5	5	5	Good
89	20MC1A0575	Yes	Yes	5	5	5	5	5	Good
90	20MC1A0579	Yes	Yes	5	5	5	5	5	Good
91	20MC1A0586	Yes	Yes	5	5	5	5	5	Good
92	20MC1A0593	Yes	Yes	5	5	5	5	5	Good

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93	20MC1A05A0	yes	yes	5	5	5	5	5	good
94	21MC5A0505	yes	yes	5	5	5	5	5	good
95	21MC5A0509	yes	yes	5	5	5	5	5	good
96	21MC5A0514	yes	yes	5	5	5	5	10	good
97	21MC1A0574	yes	yes	5	5	5	5	5	Good
98	21MC1A0578	yes	yes	5	5	5	5	5	good
99	21MC1A0583	yes	yes	4	4	5	4	5	Very
100	21MC1A0587	yes	yes	5	5	5	5	5	Excellent
101	21MC1A0592	yes	yes	5	5	5	5	5	Excellent
102	21MC1A0596	yes	yes	5	5	5	4	5	Excellent
103	21MC1A05A1	yes	yes	5	5	5	5	5	good
104	21MC1A05A6	yes	yes	5	5	5	5	5	V. good
105	21MC1A0512	yes	yes	5	5	5	5	5	V. good
106	21MC1A0518	yes	yes	5	5	5	5	5	good
107	21MC1A0522	yes	yes	5	5	5	5	5	good
108	21MC1A0525	yes	yes	5	5	5	5	5	Excellent
109	21MC1A0502	yes	yes	5	5	5	5	5	good
110	20MC1A0506	yes	yes	5	5	5	5	5	good
111	21MC1A0518	yes	yes	5	5	5	5	5	good

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112	21MC1A0522	yes	yes	5	5	5	5	5	good
113	22MC1A4401	yes	yes	5	5	5	5	5	good
114	22MC1A4402	yes	yes	5	4	5	4	5	Good
115	22MC1A4403	yes	yes	5	5	4	5	4	good
116	22MC1A4404	yes	yes	5	5	4	5	5	good
117	22MC1A4405	yes	yes	5	5	5	5	5	good
118	22MC1A4406	yes	yes	5	5	5	5	5	Excellent
119	22MC1A4407	yes	yes	5	5	5	5	5	good
120	22MC1A4409	yes	yes	5	5	5	5	5	✓ good
121	22MC1A4410	yes	yes	5	5	5	5	5	✓ good
122	22MC1A4413	yes	yes	5	5	5	5	5	good
123	22MC1A4414	yes	yes	5	5	5	5	5	good
124	22MC1A4415	yes	yes	5	5	5	5	5	Excellent
125	22MC1A4417	yes	yes	5	5	5	5	5	Excellent


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