



R K COLLEGE OF ENGINEERING

(Accredited by NAAC with 'A' Grade)

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

Date: 06-10-2023

To,
The Principal
R K College of Engineering.

Through HOD-C.S.E.

Sub: Seeking permission to conduct Seminar on "APPLICATION PYTHON ON PANDAS".

Sir,

I request you to kindly grant permission to conduct a Seminar on 10 & 11th October 2023 on "APPLICATION PYTHON ON PANDAS". The purpose of this project is to explore the capabilities of Python and Pandas in data analysis and manipulation. This will provide me with hands-on experience in programming, data processing, and analysis, all of which are valuable skills in today's world with regard to the new trends in This will be a very informative seminar for many students.

Our students really need to understand the operation and advantages of Distributed Generation as an alternative generating technique.

Thanking you Sir

Yours Sincerely

B. DHARMARAJU
ASSISTANT PROFESSOR
CSE Dept.


Coordinator-IQAC
RKCE


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TWO-DAYSEMINARON

"APPLICATION PYTHON ON PANDAS"

Organized by
Department of Computer science and Engineering
R K College of Engineering, Vijayawada

PROGRAMME FLOW – 10-10-2023.

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:00AMto 10:15AM	B. DHARMA RAJU	Welcomespeech
10:15AM to 10:30AM	Mr.Goriparthi Hnuman Narendra	Introduction about the program
10:30AMto 11:30AM	Mr.Goriparthi Hnuman Narendra Assistant Professor. V.K.R, V.N.B & A.G.K Gudivada Email: goripathihanumanarendra@gmail.com Phone No: 9989800781	Common Applications of Python with Pandas
11:30AMto 11 :45	TEA BREAK	
11:45AMto 01:00 PM	Mr.Goriparthi Hnuman Narendra Assistant Professor. V.K.R,V.N.B & A.G.K Gudivada Email: goripathihanumanarendra@gmail.com Phone No: 9989800781	Basic Python Application Using Pandas Data Cleaning: Exploratory Data Analysis (EDA):
01:00 PM to 02:00 PM	LUNCHBREAK	
02:00 PMto 03:30 PM	Mr.Goriparthi Hnuman Narendra Assistant Professor. V.K.R,V.N.B & A.G.K Gudivada Email: goripathihanumanarendra@gmail.com Phone No: 9989800781	Technologies Data Science Machine Learning Business Intelligence Data Visualization

Coordinator:Mr.B.DHARMA RAJU


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TWO-DAYSEMINARON

"APPLICATION PYTHON ON PANDAS"

Organized by
Department of COMPUTER SCIENCE AND ENGINEERING
R K College of Engineering, Vijayawada

PROGRAMME FLOW – 11-10-2023

TIME	SPEAKER	TOPIC TO BE DELIVERED
10:30AM to 11:30AM	Mr.Goriparthi Hnuman Narendra Assistant Professor. V.K.R,V.N.B & A.G.K Gudivada Email:goripathihanumanarendra@gmail.com Phone No: 9989800781	Big Data Processing Web Scraping and APIs Automation and Scripting
11:30AM to 11 : 45 AM	TEA BREAK	
11:45AM to 01:00 PM	Mr.Goriparthi Hnuman Narendra Assistant Professor. V.K.R,V.N.B & A.G.K Gudivada Email:goripathihanumanarendra@gmail.com Phone No: 9989800781	Data Manipulation and Cleaning Efficient Data Analysis Handling Time Series Data
01:00 PM to 02:00 PM	LUNCH BREAK	
02:00 PM to 03:30 PM	Mr.Goriparthi Hnuman Narendra Assistant Professor. V.K.R,V.N.B & A.G.K Gudivada Email:goripathihanumanarendra@gmail.com Phone No: 9989800781	Applications on a APPLICATION PYTHON ON PANDAS
03:30 PM to 04:00 PM	Feedback from the participants and vote of thanks by Mr.B.DHARMA RAJU	

Coordinators: Mr. B.DHARMARAJU


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Date: 06-09-2018

REPORT ON TWO DAY SEMINAR ON "APPLICATION PYTHON ON PANDAS"

Title: " APPLICATION PYTHON ON PANDAS"

Expert: Mr.G.HNUMAN NARENDRA

Assistant professor

VKR&VNB&AGKENGINEERING COLLEGE.

GUDIWADA.

Email:goripathihanumanarendra@gmail.com

Phone No: 9989800781

Date:10&11stOctober,2023

Venue: SEMINAR HALL-003, RKCE.

Coordinators: Mr.K.KOTESWARARAO

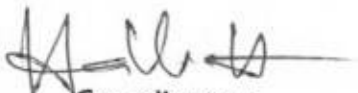
Mr. B.DHARMARAJU

Organizedby:COMPUTER SCINECE AND ENGINEERING

TotalParticipantsattended: 125

Detailsof Participants: Students of III Year 1stsemester.

Students of IIIYear 1stsemester have attended the seminar on Distributed Generation with full enthusiasm. Mr.G.HNUMAN NAREDNRA has elaborately explained about the operation and advantages of APPLICATION PYTHON ON PANDAS. Also, he explained about the various types and applications of APPLICATION PYTHON ON PANDAS. The detailed topics are shown in program flow. This seminar was very useful as well as educative for the participants.


Coordinators


HOD-CSE


Coordinator-IQAC
RKCE


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Student Attendance for Seminar on "APPLICATION PYTHON ON PANDAS"

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	A	A
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	A
21	20MC1A0512	CHALLA ANUSHA	P	P
22	21MC1A0517	DANDU VENKATA CHALAPATHI	A	P
23	21MC1A0523	GALIPOTHULA SANTHOSH KUMAR	P	P

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24	20MC1A0528	GURRALA MOUNIKA	P	P
25	20MC1A0533	INUPANURTHI PUSHPA MADHURI	P	P
26	20MC1A0538	KARNATI SAI PRABHU	P	P
27	20MC1A0543	KATIKI BALAKRISHNA	P	P
28	20MC1A0547	KORAGANJI VENU KUMAR	P	P
29	20MC1A0554	MANAVASI SIVA KUMAR	P	P
30	20MC1A0558	MEKA ASWINI	P	P
31	20MC1A0569	PANTAPALLE BHARGAVI	P	P
32	20MC1A0563	NALLADIMMU VENKATA SUBBAREDDY	P	P
33	20MC1A0575	PONUGUPATI AJAY KUMAR	P	P
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	P
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	P
45	21MC1A0592	POTHUGANTI APPARAO	P	P
46	21MC1A0596	R SREE VIDYA	P	P
47	21MC1A05A1	SAKAM RANGA SWAMY REDDY	P	P
48	21MC1A05A6	SHAIK UDAY	P	P
49	21MC1A0512	BHUMA GANGADHAR NAIDU	P	P
50	21MC1A0518	CHENNADI KHYATHI	P	P

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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	P
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
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63	21MC1A0514	BOMMIREDDY UMA MAHESWARI	P	P
64	21MC1A0517	CHELLUBOINA DILEEP	P	P
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69	21MC1A0528	EEVURI VIJAYA LAKSHMI	P	P
70	21MC1A0530	GAGGARA CHANDU KOUSHIK	P	P
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76	21MC1A0543	KADALI MOUNIKA	P	P
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78	21MC1A0517	DANDU VENKATA CHALAPATHI	P	P

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80	20MC1A0528	GURRALA MOUNIKA		
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86	20MC1A0558	MEKA ASWINI		
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88	20MC1A0563	NALLADIMMU VENKATA SUBBAREDDY		
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99	21MC1A0583	PANTAPALLI BHUVANESWARI		
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102	21MC1A0596	R SREE VIDYA		
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104	21MC1A05A6	SHAIK UDAY		
105	21MC1A0512	BHUMA GANGADHAR		

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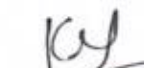
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		NAIDU	P	A
106	21MC1A0518	CHENNADI KHYATHI	P	P
107	21MC1A0522	DARGA DINESH	P	P
108	21MC1A0525	DHANALAKOTA DENI SRILAKSHMI	A	P
109	21MC1A0502	ADAPA JEEVAN KUMAR	A	P
110	20MC1A0506	BHIMIREDDI LOVA SATISH	P	P
111	21MC1A0518	CHENNADI KHYATHI	P	P
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114	22MC1A4402	AREVARAPU BHAVYA SREE	P	P
115	22MC1A4403	BATTHALA SIDDHARTHA	P	P
116	22MC1A4404	BEMISITTY SATHWIK	P	P
117	22MC1A4405	BOMMU KIRAN KUMAR REDDY	A	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


Coordinators


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Resource Person Profile



Presently working as Associate Professor of COMPUTER SCIENCE AND ENGINEERING Department at VKR&VNB&AGK ENGINEERING COLLEGE from APRIL 2015 (Responsibilities: Teaching UG and PG Students of Computer science and Engineering and performing the works assigned by Principal). Having 10 years of Teaching and 5 years of Research consultancy in Computer science and Engineering.

APPLICATION PYTHON ON PANDAS :

Python with Pandas is a powerful combination for data analysis and manipulation. Pandas is a library that provides data structures and data analysis tools, primarily used for working with structured data (like tables, CSV files, or SQL databases). Here are a few applications of Python with Pandas in various domains:

Why APPLICATION PYTHON ON PANDAS

The application of Python with the Pandas library is widely used in various fields due to its ability to handle, manipulate, and analyze data efficiently. Here are some key reasons why Python and Pandas are commonly applied together:

1. Data Analysis and Manipulation

- **Data Frames:** Pandas provides data structures like DataFrame and Series that are easy to manipulate and work with. DataFrames allow for the storage of heterogeneous data types and are similar to Excel spreadsheets or SQL tables.

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REPORT ON APPLICATION PYTHON ON PANDAS

About APPLICATION PYTHON ON PANDAS:

Report on the Application of Python on Pandas

Introduction

Python, one of the most popular programming languages in the world, has gained widespread usage across various fields, especially in data analysis and manipulation. One of the key reasons for its popularity is the availability of libraries like Pandas. Pandas is an open-source, high-performance library that provides data structures and functions to efficiently work with structured data. This report aims to explore the application of Python and Pandas in different domains, highlighting its capabilities in data manipulation, analysis, and visualization.

Overview of Pandas Library

Pandas is built on top of NumPy, which provides fast numerical computation. It is widely used in data science, finance, economics, research, and machine learning applications due to its powerful data structures, primarily the DataFrame and Series.

Key Features of Pandas:

- DataFrame: A 2-dimensional labeled data structure (like a table) that allows.

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Date: 06-10-2023

To
Mr.G.HNUMAN NARENDRA
Assistant Professor
VKR&VNB&AGK ngineering college.
GUDIWADA.

Sir,

Subject: Request invitation for delivering expert lecture Two-day seminar on
"APPLICATION PYTHON ON PANDAS : "on dates 10-10-2023 &11-10-2023– Reg.

Respected Sir,

The department of C.S.E., RKCE, Kethanakonda (V),Ibrahimpatnam(M), Andhra Pradesh is organizing a two-days Seminar on Advancement in C.S.E.during 10-10-2023&11-10-2023. 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

K.KOTESWARARAO
HOD-CSE

Coordinator-IQAC
RKCE

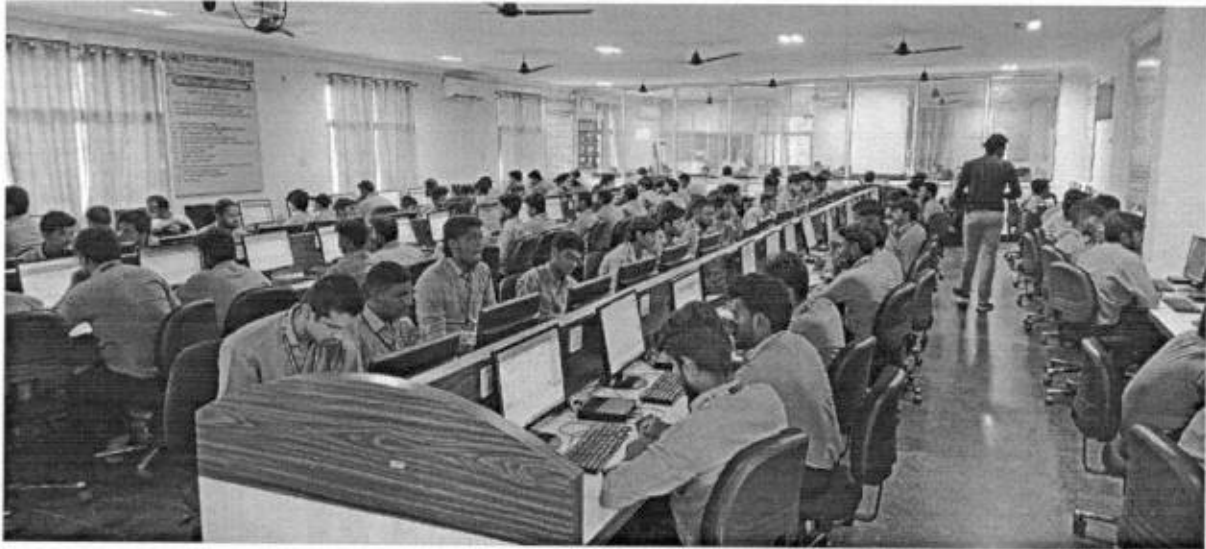
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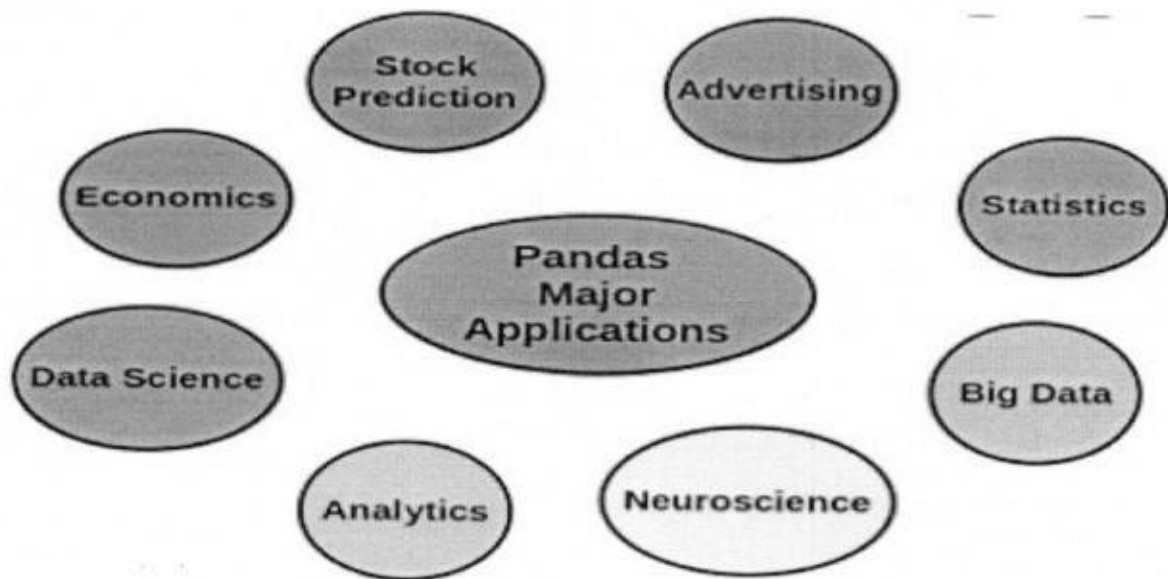
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Applications of Python and Pandas:



1. Data Management and Organization

- **Data Import and Export:** Pandas supports reading and writing various file formats (CSV, Excel, JSON, SQL, etc.), which is essential for handling employee benefits data.
- **Data Cleaning:** Benefits data often contains missing, duplicated, or inconsistent entries. Pandas has built-in functions for data cleaning, such as handling null values, dropping duplicates, and formatting columns appropriately.



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2. Data Analysis

- **Descriptive Statistics:** Pandas provides tools for summarizing large datasets, calculating means, medians, standard deviations, and other statistics, which are useful for analyzing benefits data trends (e.g., total amount spent on healthcare benefits, average salary-based benefit allocation, etc.).
- **Aggregating Data:** You can easily aggregate data by categories (e.g., employee department, role, location) to generate summary reports about benefit usage, costs, or participation.

3. Benefit Cost Analysis

- **Cost Analysis:** With Pandas, you can analyze the total cost of various benefit packages (e.g., health, dental, retirement) across different employee demographics.
- **Visualization:** You can use Pandas in combination with libraries like Matplotlib or Seaborn to create visualizations (e.g., pie charts, bar graphs) to display the distribution of benefits costs or participation.

4. Data Transformation

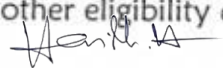
- **Pivot Tables:** You can easily transform data using pivot tables to summarize benefit data across different dimensions, such as the cost per employee by department or benefits by region.
- **Reshaping Data:** Use Pandas to reshape data by transposing, melting, or pivoting datasets, enabling you to view benefits data from different perspectives for reporting and decision-making.

5. Time Series Analysis

- **Tracking Benefit Claims Over Time:** Pandas has powerful tools for time series analysis, which is useful for tracking benefits claims, spending trends, and enrollment patterns over months or years.
- **Forecasting:** You can use historical data to forecast future benefits usage or costs with Pandas combined with other libraries like statsmodels or prophet.

6. Employee Benefits Eligibility

- **Conditional Logic:** Use conditional operations (e.g., using `.loc[]`) to filter and calculate eligibility for benefits based on factors like age, tenure, salary, or other eligibility criteria.


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7. Improved Reporting

- **Automated Reporting:** By leveraging Pandas to process benefits data, you can automate reporting for HR teams, leadership, or external stakeholders. Reports can be automatically generated, formatted, and exported in the desired format (e.g., Excel, PDF).
- **Data Integration:** Pandas allows you to integrate data from different sources (e.g., payroll systems, healthcare providers) to provide a holistic view of benefits data in one report.

8. Data Validation and Integrity Checks

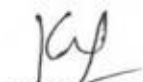
- **Validation:** You can use Pandas to validate that all benefits-related data adheres to rules (e.g., no duplicate entries, valid date ranges, correct employee IDs).
- **Error Detection:** Pandas provides efficient ways to detect anomalies or inconsistencies in large datasets, ensuring data integrity for benefits management.

However, APPLICATION PYTHON ON PANDAS can also lead to negative environmental impacts:

While using Python and libraries like Pandas can bring many benefits in terms of data analysis and processing, it can also have negative environmental impacts due to the energy consumption associated with running computations. Some of the key environmental concerns include:

1. **High Energy Consumption:** Large-scale data processing, which is common when using libraries like Pandas for handling big data, often requires significant computational resources. These resources, if not optimized, can result in high energy consumption, which in turn increases carbon emissions if the energy comes from non-renewable sources.
2. **Data Center Power Use:** Many data analysis tasks require storing and processing data in data centers. These facilities consume substantial amounts of electricity, and unless they are powered by renewable energy, they can contribute significantly to carbon emissions.
3. **Server Load and Cooling Systems:** The hardware used for processing large datasets, whether in cloud servers or on-premise data centers, generates heat that needs to be cooled. Cooling systems themselves can be energy-intensive, and they can increase the environmental footprint of running large-scale Python applications.


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Website: www.rkce.in



Certificate



This is to certify that Mr./ Ms. G. Harish yadav

has Successfully completed a Course / Workshop / Seminar on "Application pattern

on pmdas " from 10/11/2023 to 11/10/2023

in association with VXL at RK College of Engineering.

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Feedback form for Two days seminar on "APPLICATION PYTHON ON PANDAS"

* (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	4	4	4	4	Good
2	21MC1A0503	yes	yes	5	4	4	5	4	V-Good
3	21MC1A0505	yes	yes	5	4	5	5	4	V-Good
4	21MC1A0507	yes	yes	5	5	5	5	5	Excellent
5	21MC1A0509	yes	yes	5	4	5	5	4	V-Good
6	21MC1A0511	yes	yes	5	4	5	4	4	Good
7	21MC1A0514	yes	yes	5	5	5	5	5	Excellent
8	21MC1A0517	yes	yes	5	4	5	4	5	V-Good
9	21MC1A0519	yes	yes	5	5	5	5	5	Excellent
10	21MC1A0521	yes	yes	4	4	5	4	5	Good
11	21MC1A0523	yes	yes	5	5	4	5	4	Good
12	21MC1A0526	yes	yes	5	4	5	5	5	V-Good
13	21MC1A0528	yes	yes	5	5	5	5	5	Excellent
14	21MC1A0530	yes	yes	5	5	5	5	5	V-Good

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15	21MC1A0532	yes	yes	5	5	4	5	4	V Good
16	21MC1A0533	yes	yes	5	4	5	5	5	V Good
17	21MC1A0536	yes	yes	5	5	5	5	5	Excellent
18	21MC1A0539	yes	yes	5	4	4	5	4	V Good
19	21MC1A0541	yes	yes	5	4	4	4	5	Good
20	21MC1A0543	yes	yes	5	5	5	5	4	V Good
21	20MC1A0512	yes	yes	5	4	5	4	5	V Good
22	20MC1A0517	yes	yes	5	4	4	5	5	V Good
23	20MC1A0523	yes	yes	5	5	5	5	5	Excellent
24	20MC1A0528	yes	yes	5	5	5	5	5	Excellent
25	20MC1A0533	yes	yes	5	5	5	4	4	V Good
26	20MC1A0538	yes	yes	5	4	5	5	4	V Good
27	20MC1A0543	yes	yes	5	5	5	5	5	Excellent
28	20MC1A0547	yes	yes	5	4	5	5	5	V Good
29	20MC1A0554	yes	yes	5	5	5	5	5	Excellent
30	20MC1A0558	yes	yes	5	5	5	5	5	Excellent
31	20MC1A0569	yes	yes	5	4	4	4	4	V Good
32	20MC1A0569	yes	yes	5	4	5	5	4	V Good

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33	20MC1A0575	yes	yes	5	4	5	5	5	V-Good
34	20MC1A0579	yes	yes	5	4	4	5	4	Good
35	20MC1A0586	yes	yes	5	4	5	4	4	V-Good
36	20MC1A0593	yes	yes	5	4	4	5	4	Good
37	20MC1A05A0	yes	yes	5	5	5	5	5	Excellent
38	21MC5A0505	yes	yes	5	5	5	5	5	Excellent
39	21MC5A0509	yes	yes	5	5	4	5	5	V-Good
40	21MC5A0514	yes	yes	5	4	5	4	5	Good
41	21MC1A0574	yes	yes	5	4	4	4	4	Good
42	21MC1A0578	yes	yes	5	4	5	5	4	V-Good
43	21MC1A0583	yes	yes	5	4	4	5	5	V-Good
44	21MC1A0587	yes	yes	5	4	5	4	4	V-Good
45	21MC1A0592	yes	yes	5	5	4	5	5	V-Good
46	21MC1A0596	yes	yes	5	4	5	5	5	V-Good
47	21MC1A05A1	yes	yes	5	5	5	4	5	V-Good
48	21MC1A05A6	yes	yes	5	5	5	5	5	Excellent
49	21MC1A0512	yes	yes	5	4	4	4	5	V-Good
50	21MC1A0518	yes	yes	5	5	5	4	4	V-Good

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51	21MC1A0522	yes	yes	5	5	5	4	5	V Good
52	21MC1A0525	yes	yes	5	4	5	5	5	V Good
53	21MC1A0502	yes	yes	5	4	4	5	4	V Good
55	21MC1A0518	yes	yes	5	5	4	5	5	V Good
56	21MC1A0522	yes	yes	5	4	4	4	5	V Good
57	21MC1A0501	yes	yes	5	5	5	5	5	Excellent
58	21MC1A0503	yes	yes	5	5	5	4	5	V Good
59	21MC1A0505	yes	yes	5	5	5	5	5	V Good
60	21MC1A0507	yes	yes	5	5	5	5	4	V Good
61	21MC1A0509	yes	yes	5	4	5	5	5	V Good
62	21MC1A0511	yes	yes	5	4	5	4	5	V Good
63	21MC1A0514	yes	yes	5	5	5	4	5	V Good
64	21MC1A0517	yes	yes	5	4	4	4	5	Good
65	21MC1A0519	yes	yes	5	5	4	5	5	V Good
66	21MC1A0521	yes	yes	5	4	5	4	4	Good
67	21MC1A0523	yes	yes	5	5	5	5	5	Excellent
68	21MC1A0526	yes	yes	5	5	5	5	5	V Good
69	21MC1A0528	yes	yes	5	5	5	4	4	Good

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70	21MC1A0530	yes	yes	5	4	4	5	4	V. Good
71	21MC1A0532	yes	yes	5	4	5	5	5	V. Good
72	21MC1A0533	yes	yes	5	5	5	5	5	Excellent
73	21MC1A0536	yes	yes	4	5	5	5	4	V. Good
74	21MC1A0539	yes	yes	5	4	5	5	5	V. Good
75	21MC1A0541	yes	yes	5	4	5	5	5	V. Good
76	21MC1A0543	yes	yes	5	4	4	4	4	Good
77	20MC1A0512	yes	yes	5	4	5	4	5	Good
78	20MC1A0517	yes	yes	5	5	5	5	5	Excellent
79	20MC1A0523	yes	yes	5	4	5	4	5	V. Good
80	20MC1A0528	yes	yes	5	5	5	5	5	Excellent
81	20MC1A0533	yes	yes	4	5	5	5	5	Good
82	20MC1A0538	yes	yes	4	5	5	4	5	V. Good
83	20MC1A0543	yes	yes	5	5	5	5	5	Excellent
84	20MC1A0547	yes	yes	5	4	5	4	5	V. Good
85	20MC1A0554	yes	yes	5	4	5	5	5	V. Good
86	20MC1A0558	yes	yes	4	5	5	5	4	V. Good
87	20MC1A0562	yes	yes	5	4	5	4	5	V. Good

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88	20MC1A0563	yes	yes	5	5	5	4	5	Good
89	20MC1A0575	yes	yes	5	5	5	4	5	Good
90	20MC1A0579	yes	yes	5	4	4	4	4	Good
91	20MC1A0586	yes	yes	5	4	5	4	4	Good
92	20MC1A0593	yes	yes	5	5	5	4	5	Good
93	20MC1A05A0	yes	yes	5	5	5	5	5	Good
94	21MC5A0505	yes	yes	5	4	5	4	4	Good
95	21MC5A0509	yes	yes	5	4	4	5	5	Good
96	21MC5A0514	yes	yes	5	5	4	4	4	Good
97	21MC1A0574	yes	yes	5	5	5	5	5	Good
98	21MC1A0578	yes	yes	5	5	5	4	5	Good
99	21MC1A0583	yes	yes	5	5	5	5	5	Good
100	21MC1A0587	yes	yes	5	4	4	4	5	Good
101	21MC1A0592	yes	yes	5	4	5	4	5	Good
102	21MC1A0596	yes	yes	5	4	4	4	5	Good
103	21MC1A05A1	yes	yes	5	5	4	3	5	Good
104	21MC1A05A6	yes	yes	5	5	5	5	5	Green
105	21MC1A0612	yes	yes	5	5	5	5	4	V-Good

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106	21MC1A0518	yes	yes	4	4	5	5	5	Good
107	21MC1A0522	yes	yes	4	5	4	5	4	V. Good
108	21MC1A0525	yes	yes	5	4	5	4	5	Good
109	21MC1A0502	yes	yes	5	4	4	5	4	V. Good
110	20MC1A0506	yes	yes	5	4	4	5	5	Good
111	21MC1A0518	yes	yes	5	4	4	4	5	V. Good
112	21MC1A0522	yes	yes	5	5	5	5	5	Excellent
113	22MC1A4401	yes	yes	5	5	5	5	5	Excellent
114	22MC1A4402	yes	yes	5	5	5	5	4	V. Good
115	22MC1A4403	yes	yes	5	4	4	5	5	Good
116	22MC1A4404	yes	yes	5	5	4	5	4	V. Good
117	22MC1A4405	yes	yes	5	4	5	4	5	Good
118	22MC1A4406	yes	yes	5	4	4	5	4	V. Good
119	22MC1A4407	yes	yes	5	4	5	5	5	V. Good
120	22MC1A4409	yes	yes	5	5	5	5	5	Excellent
121	22MC1A4410	yes	yes	5	4	5	5	5	V. Good
122	22MC1A4413	yes	yes	5	4	4	5	5	Good
123	22MC1A4414	yes	yes	5	5	5	5	5	Excellent

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124	22MC1A4415	yes	yes	4	4	5	5	5	✓ Good
125	22MC1A4417	yes	yes	4	4	4	4	4	Good



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