

Pandas Operations

The background is a dark red gradient. On the right side, there is a complex network of nodes (circles) connected by thin lines, with some nodes highlighted in lighter shades of red and pink. Overlaid on this network is a pattern of semi-transparent hexagons. A thin, light-colored dashed line runs horizontally across the lower third of the image, and another dashed line runs vertically on the right side, intersecting the network.

About Me

I am Vaishnavi Nikam

Div: G

Chemical Department



Content

- ♦ Introduction
- . Pandas Operations



Introduction

Pandas is a library of python which used for Working on various Datasets.

It has functions for analyzing , cleaning and exploring Data



Pandas operations

Pandas provides several methods for loading data from different sources. Here are some common ways to load data using pandas:

CSV Files:

```
import pandas as pd
```

```
# Load a CSV file with custom delimiter
```

```
df = pd.read_csv('data.csv', delimiter=';')
```

```
# Load a CSV file with specific columns
```

```
df = pd.read_csv('data.csv', usecols=['col1', 'col2'])
```

CSV File

Name, Age, Gender, Salary

Alice,25,Female,50000

Bob,30,Male,60000

Charlie,35,Male,70000

David,40,Male,80000Eve,45,Female,90000

- `df.describe()`
- It will give us the summary of that particular dataset.

```
] : df.describe()
```

```
] :
```

	P00001	Lenovo Laptop	Raka Ele.	Kaustubh Mahajan	Male
count	19	19	19	19	19
unique	19	5	5	6	2
top	P00002	Samsung M31	Gada Ele.	Siddhi Kiwale	Male
freq	1	5	5	5	13

We can also convert the dictionary into a dataframe

```
[2]: import pandas as pd
```

```
[6]: data={'SIC':[16,17,19,20,15], 'EDS':[20,16,17,18,19], 'SON':[20,6,8,9,10], 'AM':[4,8,9,10,19], 'EGR':[6,10,11,13,14]}
df=pd.DataFrame(data)
df
```

```
[6]:
```

	SIC	EDS	SON	AM	EGR
0	16	20	20	4	6
1	17	16	6	8	10
2	19	17	8	9	11
3	20	18	9	10	13
4	15	19	10	19	4

Indexing to dataframe

```
In [25]: data={'SIC':[16,17,19,20,15], 'EDS':[20,16,17,18,19], 'SON':[20,6,8,9,10], 'AM':[4,8,9,10,19], 'EGR':[6  
df=pd.DataFrame(data,index=["Ram", "Sita", "Gita", "Radha", "Krishna"])  
df|
```

Out[25]:

	SIC	EDS	SON	AM	EGR
Ram	16	20	20	4	6
Sita	17	16	6	8	10
Gita	19	17	8	9	11
Radha	20	18	9	10	13
Krishna	15	19	10	19	4

THANK YOU!

