

DATA ANALYSIS PROJECT

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DATE : 07-12-2025

PROJECT TITLE:

Data Cleaning and Analysis using Python

OBJECTIVE:

To load a CSV file, clean data, and generate meaningful insights using Python Pandas.



TOOLS USED:

- Python
- Pandas
- CSV Dataset

INPUT:




File Name: data.csv









File **Home** WPS PDF Insert Draw Page Layout Formulas Data

 Paste

Aptos Narrow 11 A[^] A^v

B *I* U   

Clipboard Font Alignment

 **POSSIBLE DATA LOSS** Some features might be lost if you save this workbook in the comma

A1								
	A	B	C	D	E	F	G	H
1	Name	Departmer	Salary	Age				
2	Arun	IT	50000	25				
3	Meena	HR	45000	30				
4	Ravi	IT	60000	28				
5	Divya	Finance	55000	26				
6	Karthik	IT	52000	24				
7	Priya	HR	48000	29				
8	Suresh	Sales	40000	35				
9	Anu	Finance	57000	27				
10	Vijay	IT	61000	31				
11	Lakshmi	HR	46000	28				
12	Rahul	Sales	42000	34				
13	Sneha	IT	54000	23				
14	Manoj	Finance	58000	32				
15	Keerthi	HR	49000	26				
16	Naveen	Sales	39000	29				
17	Pooja	IT	63000	22				
18	Ajith	Finance	56000	36				
19	Kavya	HR	47000	24				
20	Dinesh	Sales	41000	33				
21	Aarthi	IT	59000	28				
22								
23								
24								
25								
26								

OUTPUT:

```
IDLE Shell 3.13.7
File Edit Shell Debug Options Window Help
Enter "help" below or click "Help" above for more information.
>>>
= RESTART: C:/Users/ragh1/AppData/Local/Programs/Python/Python313/data_analytics.py
Enter CSV file path: C:\Users\ragh1\OneDrive\Desktop\data.csv

☒ File loaded successfully!

===== DATA ANALYSIS MENU =====
1. Clean Data
2. Show Summary
3. Filter Data
4. Group Data
5. Exit
Enter your choice: 2

--- Summary Statistics ---
      Salary      Age
count    20.000000  20.000000
mean    51100.000000  28.500000
std      7475.574261   4.045791
min     39000.000000  22.000000
25%     45750.000000  25.750000
50%     51000.000000  28.000000
75%     57250.000000  31.250000
max     63000.000000  36.000000

===== DATA ANALYSIS MENU =====
1. Clean Data
2. Show Summary
3. Filter Data
4. Group Data
5. Exit
Enter your choice: 1

--- Cleaning Data ---
☒ Data cleaned

===== DATA ANALYSIS MENU =====
1. Clean Data
2. Show Summary
3. Filter Data
4. Group Data
5. Exit
Enter your choice: 5
🚪 Exiting...
>>> |
```

GITHUB LINK:

<https://github.com/jayanthasuresh28/DATA-ANALYSIS-PROJECT/tree/7962b04184e634f32b0e40b47ed2e07f5d6db8ca>