

```
In [13]: import pandas as pd
import numpy as np
```

```
In [14]: df = pd.read_csv("Instagram Performance & Growth Analysis.csv")
```

```
In [15]: df
```

Out[15]:

	post_id	upload_date	media_type	likes	comments	shares	save
0	IG0000001	2024-11-30 09:25:22.954916	Reel	31627	7559	4530	6
1	IG0000002	2025-08-15 09:25:22.954916	Photo	63206	3490	1680	6
2	IG0000003	2025-09-11 09:25:22.954916	Reel	94373	3727	1761	8
3	IG0000004	2025-09-18 09:25:22.954916	Reel	172053	7222	2875	9
4	IG0000005	2025-03-21 09:25:22.954916	Video	99646	2703	4444	9
...	...	...	...	...	...	...	...
29994	IG0029995	2024-12-18 09:25:22.954916	Video	46046	8354	3847	11
29995	IG0029996	2025-05-05 09:25:22.954916	Carousel	67711	3266	458	12
29996	IG0029997	2025-05-26 09:25:22.954916	Photo	52326	7328	3687	7
29997	IG0029998	2025-08-02 09:25:22.954916	Carousel	158113	5890	2573	6
29998	IG0029999	2025-04-15 09:25:22.954916	Photo	76368	7115	4603	11

29999 rows × 15 columns

```
In [16]: df.head()
```

Out[16]:	post_id	upload_date	media_type	likes	comments	shares	saves
0	IG00000001	2024-11-30 09:25:22.954916	Reel	31627	7559	4530	6393
1	IG00000002	2025-08-15 09:25:22.954916	Photo	63206	3490	1680	6809
2	IG00000003	2025-09-11 09:25:22.954916	Reel	94373	3727	1761	8367
3	IG00000004	2025-09-18 09:25:22.954916	Reel	172053	7222	2875	9290
4	IG00000005	2025-03-21 09:25:22.954916	Video	99646	2703	4444	9746

In [17]: `df.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 29999 entries, 0 to 29998
Data columns (total 15 columns):
#   Column                Non-Null Count  Dtype
---  -
0   post_id               29999 non-null  object
1   upload_date           29999 non-null  object
2   media_type            29999 non-null  object
3   likes                 29999 non-null  int64
4   comments              29999 non-null  int64
5   shares                29999 non-null  int64
6   saves                29999 non-null  int64
7   reach                 29999 non-null  int64
8   impressions           29999 non-null  int64
9   caption_length        29999 non-null  int64
10  hashtags_count        29999 non-null  int64
11  followers_gained      29999 non-null  int64
12  traffic_source         29999 non-null  object
13  engagement_rate       29999 non-null  float64
14  content_category      29999 non-null  object
dtypes: float64(1), int64(9), object(5)
memory usage: 3.4+ MB
```

In [18]: `df.describe()`

	likes	comments	shares	saves	reach
<b>count</b>	29999.000000	29999.000000	29999.000000	29999.000000	2.999900e+04
<b>mean</b>	99912.661789	5017.781426	2502.912564	7490.124637	9.965616e+05
<b>std</b>	57905.967401	2888.404881	1448.320395	4352.546949	5.777906e+05
<b>min</b>	7.000000	0.000000	0.000000	0.000000	1.650000e+02
<b>25%</b>	49755.000000	2530.500000	1246.000000	3690.500000	4.936810e+05
<b>50%</b>	99580.000000	5042.000000	2498.000000	7483.000000	9.921810e+05
<b>75%</b>	150225.000000	7518.000000	3768.000000	11294.000000	1.494798e+06
<b>max</b>	200000.000000	10000.000000	5000.000000	15000.000000	1.999865e+06

```
In [19]: df.isnull().sum()
```

```
Out[19]: post_id          0
upload_date        0
media_type         0
likes              0
comments           0
shares             0
saves              0
reach              0
impressions        0
caption_length     0
hashtags_count     0
followers_gained   0
traffic_source     0
engagement_rate    0
content_category   0
dtype: int64
```

```
In [21]: from sqlalchemy import create_engine

# Step 1: Connect to PostgreSQL
# Replace placeholders with your actual details
username = "postgres"          # default user
password = "root123"          # the password you set during installation
host = "localhost"            # if running locally
port = "5432"                 # default PostgreSQL port
database = "Instagram_Performance" # the database you created in pgAdmin

# Create the connection engine
engine = create_engine(f"postgresql+psycopg2://{username}:{password}@{host}:"

# Step 2: Load DataFrame into PostgreSQL
table_name = "Insta_Performance" # choose any table name
df.to_sql(table_name, engine, if_exists="replace", index=False)

# Print confirmation
print(f"Data successfully loaded into table '{table_name}' in database '{dat
```

Data successfully loaded into table 'Insta\_Performance' in database 'Instagram\_Performance'.

In [12]: `pip install psycopg2-binary`

Requirement already satisfied: psycopg2-binary in c:\users\kishan gupta\anaconda3\lib\site-packages (2.9.11)

Note: you may need to restart the kernel to use updated packages.

In [ ]: