import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
import warnings
warnings.simplefilter(action="ignore", category=FutureWarning)

In [2]:

df\_t = pd.read\_csv('temples.csv')

In [3]:

#lets checkout how our dataset looks like
df\_t.head()

#### Out[3]:

	templeName	Description	Location	Coordinates	DistanceFromMumbai(Km)	DistanceFromN
0	Badrinath Temple   Badrinath, Uttarakhand	The Badrinath temple also known as Badrinaraya	Badrinath	(30.7423302, 79.4930256)	1454.013555	
1	Kedarnath Temple   Kedarnath, Uttarakhand	Located at the highest altitude among the Char	Kedarnath	(30.7345609, 79.0673204)	1434.105557	
2	Gangotri Temple   Gangotri, Uttarakhand	The birthplace of the holy River Ganges is in 	Gangotri	(30.9943684, 78.9398699)	1454.357504	
3	Yamunotri Temple   Yamunotri, Uttarakhand	Located opposite to Gangotri is the sacred shr	Yamunotri	(30.999214, 78.4626951)	1435.376936	
4	Har Ki Pauri   Haridwar, Uttarakhand	As one of the oldest living cities of India, H	Haridwar	(29.9384473, 78.1452985)	1315.804055	
4						<b>&gt;</b>

In [4]: ▶

df\_t.tail()

## Out[4]:

	templeName	Description	Location	Coordinates	DistanceFromMumbai(K
48	Brihadeshwara Temple   Thanjavur, Tamil Nadu	The Brihadeshwara Temple is a masterpiece and	Thanjavur	(10.7860267, 79.1381497)	1137.5878
49	Chennakesava Temple   Belur, Karnataka	A stunner from the Hoysala period, the Chennak	Belur	(22.6357323, 88.3398223)	1655.7684
50	Thillai Nataraja Temple   Chidambaram, Tamil Nadu	The Chidambaram Temple is dedicated to Lord Sh	Chidambaram	(11.41018075, 79.67222017841891)	1118.6307
51	Annamalaiyer Temple   Thiruvannamalai, Tamil Nadu	Located at the base of Annamalai Hills in Thir	Thiruvannamalai	(9.539867, 77.6197904)	1172.3191
52	Kailashanatha Temple   Kanchipuram, Tamil Nadu	Built under the patronage of the Pallava ruler	Kanchipuram	(12.836393, 79.7053304)	1005.1765

Tn [E].

In [5]: ▶

df\_t.shape

(53, 8)

Out[5]:

In [6]:

df\_t.columns

# Out[6]:

In [7]: ▶

df\_t.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 53 entries, 0 to 52
Data columns (total 8 columns):

#	Column	Non-Null Count	Dtype
0	templeName	53 non-null	object
1	Description	53 non-null	object
2	Location	52 non-null	object
3	Coordinates	53 non-null	object
4	DistanceFromMumbai(Km)	53 non-null	float64
5	<pre>DistanceFromNewDelhi(Km)</pre>	53 non-null	float64
6	<pre>DistanceFromChennai(Km)</pre>	53 non-null	float64
7	<pre>DistanceFromKolkata(Km)</pre>	53 non-null	float64

dtypes: float64(4), object(4)

memory usage: 3.4+ KB

In [8]:

df\_t.describe()

## Out[8]:

	DistanceFromMumbai(Km)	DistanceFromNewDelhi(Km)	DistanceFromChennai(Km)	Distanc
count	53.000000	53.000000	53.000000	
mean	1195.137153	1141.181755	1323.089894	
std	844.276632	956.735097	1087.565648	
min	0.000000	0.000000	52.010385	
25%	851.545156	496.787727	487.198055	
50%	1158.782925	1087.326052	1352.260203	
75%	1405.563660	1668.348726	1797.144168	
max	6345.522996	5987.434545	7374.452960	
4				<b>&gt;</b>

In [9]:

#checking for duplicates and null values
df\_t.duplicated().sum()

Out[9]:

0

```
In [10]:
                                                                                             H
df_t.isnull().sum()
Out[10]:
templeName
                             0
Description
                             0
Location
                             1
Coordinates
                             0
DistanceFromMumbai(Km)
                             0
DistanceFromNewDelhi(Km)
                             0
DistanceFromChennai(Km)
                             0
DistanceFromKolkata(Km)
                             0
dtype: int64
In [12]:
                                                                                             H
#dropping the null values
df_t = df_t.dropna()
In [13]:
                                                                                             M
df_t.isnull().sum()
Out[13]:
templeName
                             0
Description
                             0
Location
                             0
Coordinates
                             0
DistanceFromMumbai(Km)
                             0
DistanceFromNewDelhi(Km)
                             0
DistanceFromChennai(Km)
                             0
DistanceFromKolkata(Km)
dtype: int64
In [14]:
\# looking at our dataset we can see the templename column consists of the temple name and s
df_t['State'] = df_t['templeName'].str.split(',', expand = True)[1]
```

In [15]: ▶

#now lets check if it was successful
df\_t.head()

# Out[15]:

	templeName	Description	Location	Coordinates	DistanceFromMumbai(Km)	DistanceFromN
0	Badrinath Temple   Badrinath, Uttarakhand	The Badrinath temple also known as Badrinaraya	Badrinath	(30.7423302, 79.4930256)	1454.013555	
1	Kedarnath Temple   Kedarnath, Uttarakhand	Located at the highest altitude among the Char	Kedarnath	(30.7345609, 79.0673204)	1434.105557	
2	Gangotri Temple   Gangotri, Uttarakhand	The birthplace of the holy River Ganges is in	Gangotri	(30.9943684, 78.9398699)	1454.357504	
3	Yamunotri Temple   Yamunotri, Uttarakhand	Located opposite to Gangotri is the sacred shr	Yamunotri	(30.999214, 78.4626951)	1435.376936	
4	Har Ki Pauri   Haridwar, Uttarakhand	As one of the oldest living cities of India,	Haridwar	(29.9384473, 78.1452985)	1315.804055	

In [16]:

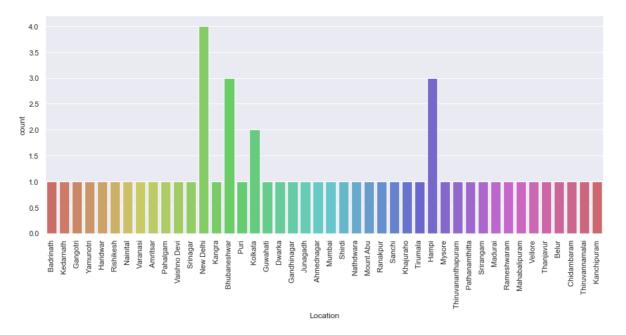
#so lets check the location with the highest numbers of indian temple and show it through v df\_t.Location.value\_counts()

# Out[16]:

New Delhi	4
Hampi	3
Bhubaneshwar	3
Kolkata	2
Badrinath	1
Ranakpur	1
Sanchi	1
Khajuraho	1
Tirumala	1
Mysore	1
Thiruvananthapuram	1
Pathanamthitta	1
Nathdwara	1
Srirangam	1
Madurai	1
Rameshwaram	1
Mahabalipuram	1
Vellore	1
Thanjavur	1
Belur	1
Chidambaram	1
Thiruvannamalai	1
Mount Abu	1
Mumbai	1
Shirdi	1
Kedarnath	1
Gangotri	1
Yamunotri	1
Haridwar	1
Rishikesh	1
Nainital	1
Varanasi	1
Amritsar	1
Pahalgam	1
Vaishno Devi	1
Srinagar	1
Kangra	1
Puri	1
Guwahati	1
Dwarka	1
Gandhinagar	1
Junagadh	1
Ahmednagar	1
Kanchipuram	1
Name: Location, dtype:	int64

In [17]: ▶

```
sns.set_theme()
plt.figure(figsize = (15,6))
sns.countplot(df_t['Location'], data = df_t, palette = 'hls')
plt.xticks(rotation = 90)
plt.show()
```



```
In [18]:
```

```
# we checked with location earlier, now lets check based on state.
df_t.State.unique()
```

#### Out[18]:

## In [19]: ▶

## df\_t.State.value\_counts()

#### Out[19]:

Tamil Nadu 9 Uttarakhand 7 5 Karnataka Delhi 4 Orissa 4 3 Jammu & Kashmir Gujarat 3 Maharashtra 3 3 Rajasthan West Bengal 2 2 Madhya Pradesh Kerala 2 Punjab 1 Himachal Pradesh 1 Uttar Pradesh 1 Andhra Pradesh 1 Assam Name: State, dtype: int64

In [20]: ▶

```
sns.set_theme()
plt.figure(figsize= (15, 6))
sns.histplot(df_t.State, bins= 60)
plt.xticks(rotation = 90)
plt.show()
```

