import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings("ignore")

In [2]: ▶

temple\_data = pd.read\_csv("temples.csv")

In [3]:

temple\_data.head()

### Out[3]:

	templeName	Description	Location	Coordinates	DistanceFromMumbai(Km)	DistanceFromN <sub>0</sub>
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	
4						<b>+</b>

In [4]: ▶

```
temple_data.tail()
```

### Out[4]:

	templeName	Description	Location	Coordinates	DistanceFromMumbai(F
48	Brihadeshwara Temple   Thanjavur, Tamil Nadu	The Brihadeshwara Temple is a masterpiece and	Thanjavur	(10.7860267, 79.1381497)	1137.587
49	Chennakesava Temple   Belur, Karnataka	A stunner from the Hoysala period, the Chennak	Belur	(22.6357323, 88.3398223)	1655.768
50	Thillai Nataraja Temple   Chidambaram, Tamil Nadu	The Chidambaram Temple is dedicated to Lord Sh	Chidambaram	(11.41018075, 79.67222017841891)	1118.630 <sup>°</sup>
51	Annamalaiyer Temple   Thiruvannamalai, Tamil Nadu	Located at the base of Annamalai Hills in Thir	Thiruvannamalai	(9.539867, 77.6197904)	1172.319 <sup>-</sup>
52	Kailashanatha Temple   Kanchipuram, Tamil Nadu	Built under the patronage of the Pallava ruler	Kanchipuram	(12.836393, 79.7053304)	1005.176!

In [5]:

In [5]:
temple\_data.shape

### Out[5]:

(53, 8)

In [6]: ▶

temple\_data.columns

### Out[6]:

In [7]: ▶

```
temple_data.info()
```

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

Column	Non-Null Count	Dtype
templeName	53 non-null	object
Description	53 non-null	object
Location	52 non-null	object
Coordinates	53 non-null	object
DistanceFromMumbai(Km)	53 non-null	float64
<pre>DistanceFromNewDelhi(Km)</pre>	53 non-null	float64
<pre>DistanceFromChennai(Km)</pre>	53 non-null	float64
<pre>DistanceFromKolkata(Km)</pre>	53 non-null	float64
	templeName Description Location Coordinates DistanceFromMumbai(Km) DistanceFromChennai(Km)	templeName 53 non-null Description 53 non-null Location 52 non-null Coordinates 53 non-null DistanceFromMumbai(Km) 53 non-null DistanceFromNewDelhi(Km) 53 non-null DistanceFromChennai(Km) 53 non-null

dtypes: float64(4), object(4)

memory usage: 3.4+ KB

In [8]: ▶

```
temple_data.describe()
```

## Out[8]:

	DistanceFromMumbai(Km)	DistanceFromNewDelhi(Km)	DistanceFromChennai(Km)	Distancef
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]:
                                                                             M
temple_data.isnull().sum()
Out[9]:
templeName
                         0
Description
                         0
Location
                         1
Coordinates
                         0
DistanceFromMumbai(Km)
                         0
DistanceFromNewDelhi(Km)
                         0
DistanceFromChennai(Km)
                         0
DistanceFromKolkata(Km)
                         0
dtype: int64
In [11]:
                                                                             H
temple_data = temple_data.dropna()
In [13]:
                                                                             M
temple_data.isnull().any().any()
Out[13]:
False
                                                                             H
In [14]:
temple_data['State']=temple_data['templeName'].str.split(',',expand=True)[1]
In [15]:
temple_data.State.unique()
Out[15]:
dtype=object)
```

In [16]: ▶

```
temple_data.State.value_counts()
```

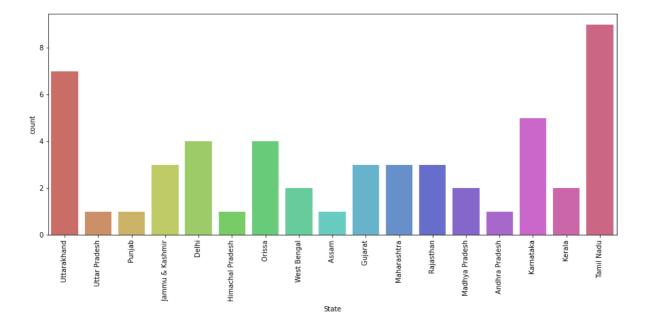
### Out[16]:

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

Name: State, dtype: int64

In [17]: ▶

```
plt.figure(figsize=(15,6))
sns.countplot('State', data = temple_data, palette='hls')
plt.xticks(rotation = 90)
plt.show()
```



In [18]: ▶

```
temple_data.Location.unique()
```

#### Out[18]:

In [19]: ▶

temple\_data.Location.value\_counts()

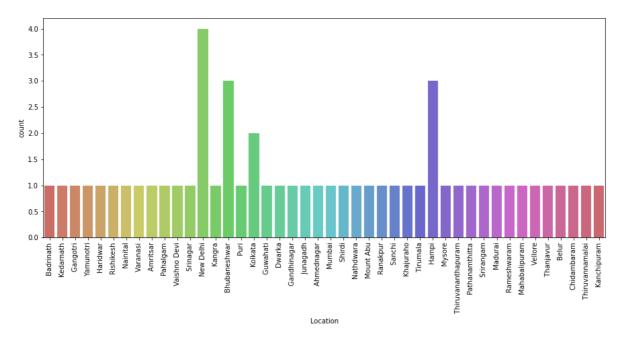
# Out[19]:

New Delhi	4
Hampi	3
Bhubaneshwar	3 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:	inte

Name: Location, dtype: int64

In [22]: ▶

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



```
In [23]:
```

In [24]:

temp('DistanceFromNewDelhi(Km)')

## Out[24]:

	templeName	DistanceFromNewDelhi(Km)
0	ISKON Temple   New Delhi, Delhi	0.000000
1	Birla Mandir   New Delhi, Delhi	0.000000
2	Akshardham Temple   New Delhi, Delhi	0.000000
3	Lotus Temple   New Delhi, Delhi	0.000000
4	Har Ki Pauri   Haridwar, Uttarakhand	172.720329
5	Neelkanth Mahadev Temple   Rishikesh, Uttarakhand	196.212348
6	Naina Devi Temple   Nainital, Uttarakhand	227.940519
7	Yamunotri Temple   Yamunotri, Uttarakhand	290.856707
8	Kedarnath Temple   Kedarnath, Uttarakhand	295.986734
9	Gangotri Temple   Gangotri, Uttarakhand	312.443007

In [25]:

temp('DistanceFromMumbai(Km)')

## Out[25]:

	templeName	DistanceFromMumbai(Km)
0	Siddhi Vinayak Temple   Mumbai, Maharashtra	0.000000
1	Shirdi Sai Baba Temple   Shirdi, Maharashtra	184.432488
2	Shani Shingnapur   Ahmednagar, Maharashtra	208.615647
3	Somnath Temple   Junagadh, Gujarat	369.551338
4	Akshardham Temple   Gandhinagar, Gujarat	459.796830
5	Dwarkadhish Temple   Dwarka, Gujarat	537.226142
6	Jain Temple   Ranakpur, Rajasthan	550.464049
7	Vitthala Temple   Hampi, Karnataka	562.648882
8	Pattabhirama Temple   Hampi, Karnataka	562.648882
9	Virupaksha Temple   Hampi, Karnataka	562.648882

In [26]:

temp('DistanceFromChennai(Km)')

## Out[26]:

	templeName	DistanceFromChennai(Km)
0	Shore Temple   Mahabalipuram, Tamil Nadu	52.010385
1	Kailashanatha Temple   Kanchipuram, Tamil Nadu	67.117235
2	Tirupati Temple (Tirumala Venkateshwara)   Tir	119.519574
3	Sripuram Golden Temple   Vellore, Tamil Nadu	141.417934
4	Thillai Nataraja Temple   Chidambaram, Tamil Nadu	196.229639
5	Brihadeshwara Temple   Thanjavur, Tamil Nadu	282.501204
6	Ranganathaswamy Temple   Srirangam, Tamil Nadu	311.612450
7	Chamundeshwari Temple   Mysore, Karnataka	401.956211
8	Meenakshi Temple   Madurai, Tamil Nadu	421.088784
9	Ramanathaswamy Temple   Rameshwaram, Tamil Nadu	433.071552

In [27]: ▶

temp('DistanceFromKolkata(Km)')

## Out[27]:

	templeName	DistanceFromKolkata(Km)
0	Kalighat Kali Temple   Kolkata, West Bengal	0.000000
1	Dakshineswar Kali Temple   Kolkata, West Bengal	0.000000
2	Chennakesava Temple   Belur, Karnataka	10.604555
3	Mukteswar Temple   Bhubaneshwar, Orissa	363.262575
4	Lingaraj Temple   Bhubaneshwar, Orissa	363.262575
5	Rajarani Temple   Bhubaneshwar, Orissa	363.262575
6	Jagannath Temple   Puri, Orissa	400.952315
7	Kamakhya Temple   Guwahati, Assam	530.247295
8	Kashi Vishwanath Temple   Varanasi, Uttar Pradesh	626.321884
9	Khajuraho Temples   Khajuraho, Madhya Pradesh	896.987576