```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as px
from google.colab import drive
drive.mount("/content/gdrive")
```

```
Mounted at /content/gdrive
```

```
data = pd.read_csv("/content/gdrive/MyDrive/OIBSIP/Unemployment in India.csv")
data = pd.read_csv("/content/gdrive/MyDrive/OIBSIP/Unemployment_Rate_upto_11_2020.csv")
print(data.head())
```

```
            Region         Date  Frequency   Estimated Unemployment Rate (%)  \
0  Andhra Pradesh   31-01-2020          M                              5.48
1  Andhra Pradesh   29-02-2020          M                              5.83
2  Andhra Pradesh   31-03-2020          M                              5.79
3  Andhra Pradesh   30-04-2020          M                             20.51
4  Andhra Pradesh   31-05-2020          M                             17.43

    Estimated Employed   Estimated Labour Participation Rate (%) Region.1  \
0             16635535                                    41.02    South
1             16545652                                    40.90    South
2             15881197                                    39.18    South
3             11336911                                    33.10    South
4             12988845                                    36.46    South

   longitude  latitude
0    15.9129     79.74
1    15.9129     79.74
2    15.9129     79.74
3    15.9129     79.74
4    15.9129     79.74
```

Checking the Dataset contains whether it contains missing values or

Checking the Dataset contains whether it contains missing values or not

```
print(data.isnull().sum())
```

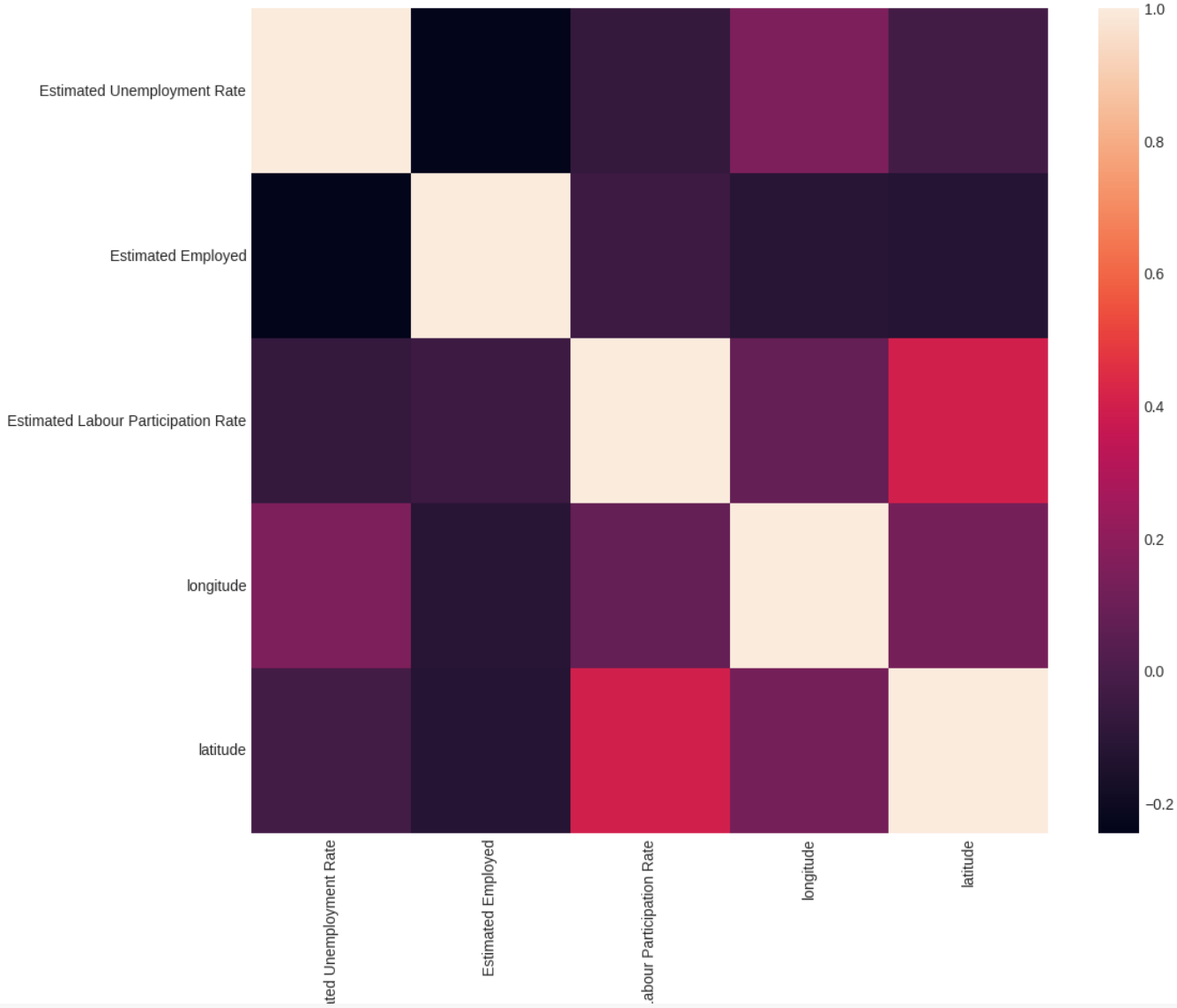
```
Region                                  0
 Date                                   0
 Frequency                              0
 Estimated Unemployment Rate (%)        0
 Estimated Employed                     0
 Estimated Labour Participation Rate (%)    0
Region.1                                0
longitude                               0
latitude                                0
dtype: int64
```

Renaming the columns names.

```
data.columns= ["States","Date","Frequency",
               "Estimated Unemployment Rate",
               "Estimated Employed",
               "Estimated Labour Participation Rate",
               "Region","longitude","latitude"]
```

```
plt.style.use('seaborn-whitegrid')
plt.figure(figsize=(12, 10))
sns.heatmap(data.corr())
plt.show()
```

```
<ipython-input-9-0c964a6ebb84>:1: MatplotlibDeprecationWarning: The seaborn styles shipped by Matplotlib are deprecated since 3.6,
  plt.style.use('seaborn-whitegrid')
<ipython-input-9-0c964a6ebb84>:3: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future ver
  sns.heatmap(data.corr())
```



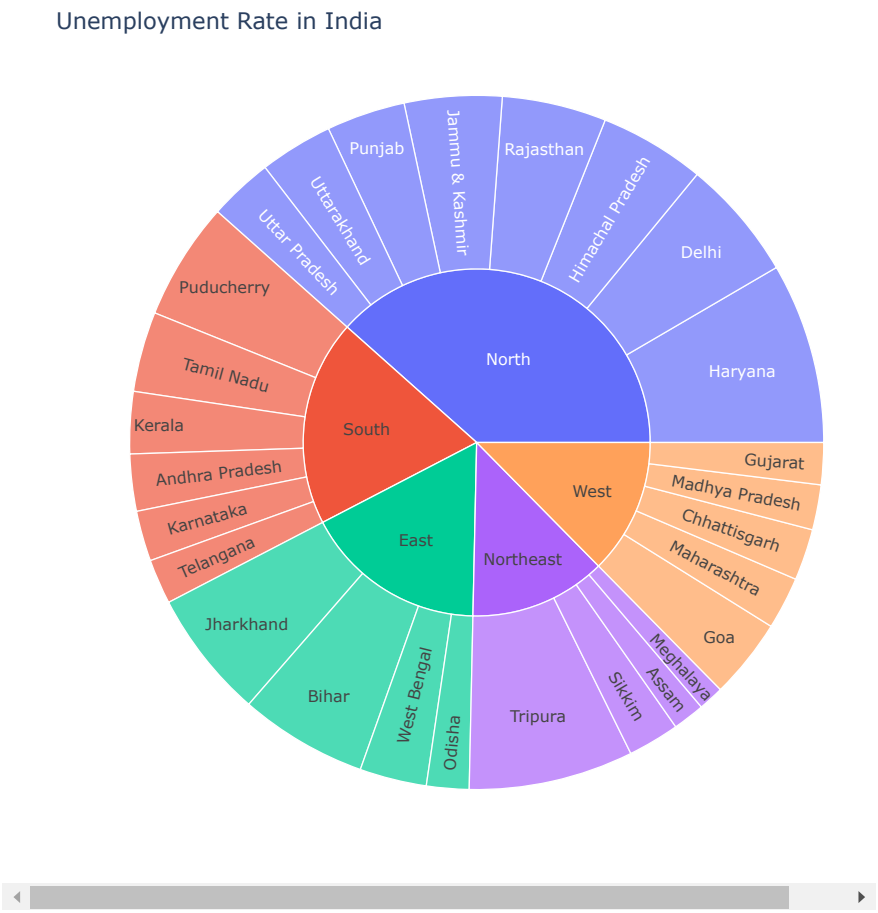

```
data.columns= ["States","Date","Frequency",
               "Estimated Unemployment Rate","Estimated Employed",
               "Estimated Labour Participation Rate","Region",
               "longitude","latitude"]

#for displaying the title above our histogram
plt.title("Indian Unemployment in different regions of India")
# for displaying it in histogram
sns.histplot(x="Estimated Employed", hue="Region", data=data)
plt.show()
```

Indian Unemployment in different regions of India

```
unemployment = data[["States", "Region", "Estimated Unemployment Rate"]]

# Sunburst plots visualize hierarchical data spanning outwards radially from root to leaves
figure = px.sunburst(unemployment, path=["Region", "States"],
                     values="Estimated Unemployment Rate",
                     width=700, height=700, color_continuous_scale="RdY1Gn",
                     title="Unemployment Rate in India")
# show() starts an event loop, looks for all currently active figure objects,
# and opens one or more interactive windows that display your figure or figures.
figure.show()
```




Colab paid products - Cancel contracts here

✓ 2s completed at 20:25