```
#importing Required Libraries
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 files
uploded = files.upload()
```

```
Choose Files No file chosen  Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving Unemployment in India.csv to Unemployment in India.csv
```

```
from google.colab import files
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```

```
Choose Files No file chosen  Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving Unemployment_of_up to 11_2020.csv to Unemployment_of_up to 11_2020.csv
```

```
import pandas as pd
data = pd.read_csv("Unemployment in India.csv")
data = pd.read_csv("Unemployment_of_up to 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
```

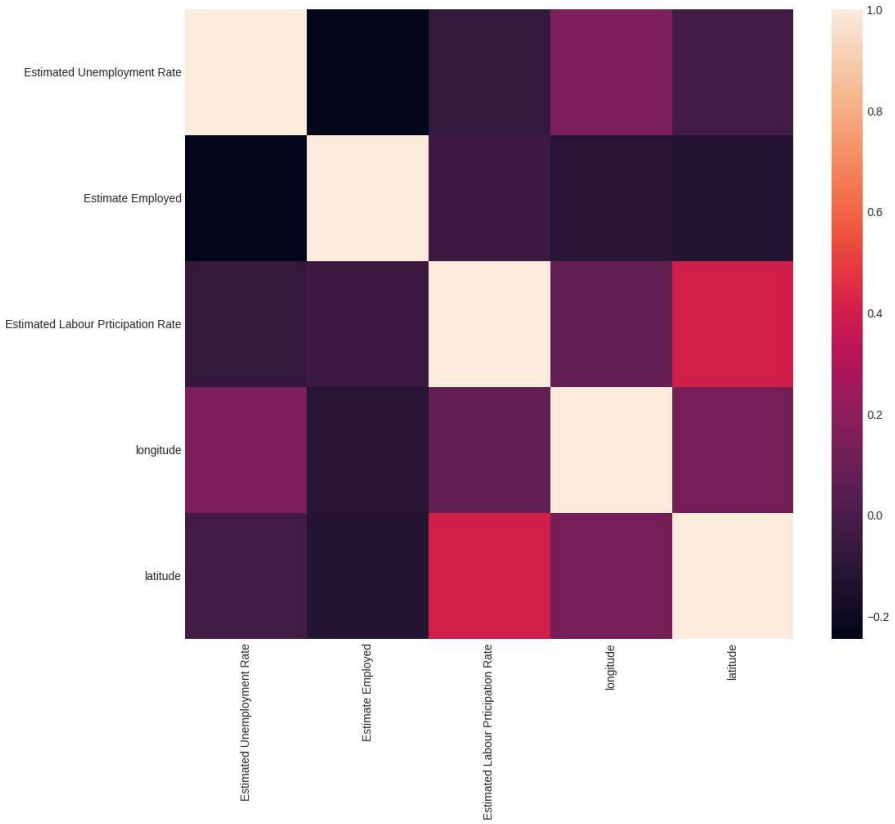
```
print(data.isnull().sum())
```

```
     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
```

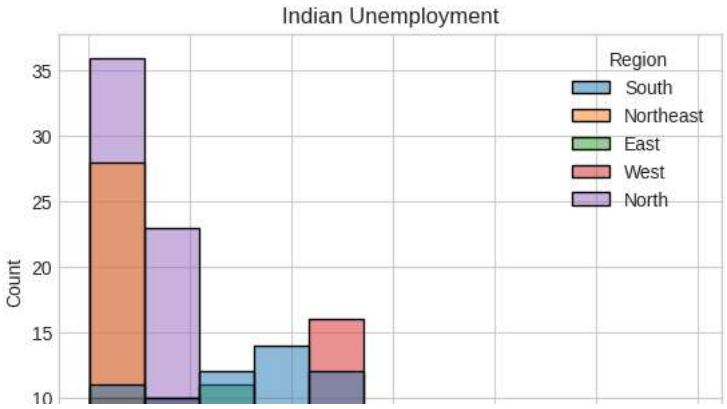
```
data.columns = ["states","Date","Frequency",
                "Estimated Unemployment Rate",
                "Estimate Employed",
                "Estimated Labour Prticipation Rate",
                "Region","longitude","latitude"]


#CORRELATION
import matplotlib.pyplot as plt
import seaborn as sns
plt.style.use('seaborn-whitegrid')
plt.figure(figsize=(12,10))
sns.heatmap(data.corr())
plt.show()
```

```
<ipython-input-7-211e0087076b>:4: MatplotlibDeprecationWarning: The seaborn styles shipp
  plt.style.use('seaborn-whitegrid')
<ipython-input-7-211e0087076b>:6: FutureWarning: The default value of numeric_only in Da
  sns.heatmap(data.corr())
```




```
#DATA VISUALIZATION
import seaborn as sns
import matplotlib.pyplot as plt
data.columns =["States","Date","Frequency",
               "Estimated Unemployment Rate","Estimated Employed",
               "Estimated Labour Participation Rate","Region",
               "longitude","latitude"]
plt.title("Indian Unemployment")
sns.histplot(x="Estimated Employed",hue="Region",data=data)
plt.show()
```




```
import seaborn as sns
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plt.figure(figsize=(12,10))
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plt.show()
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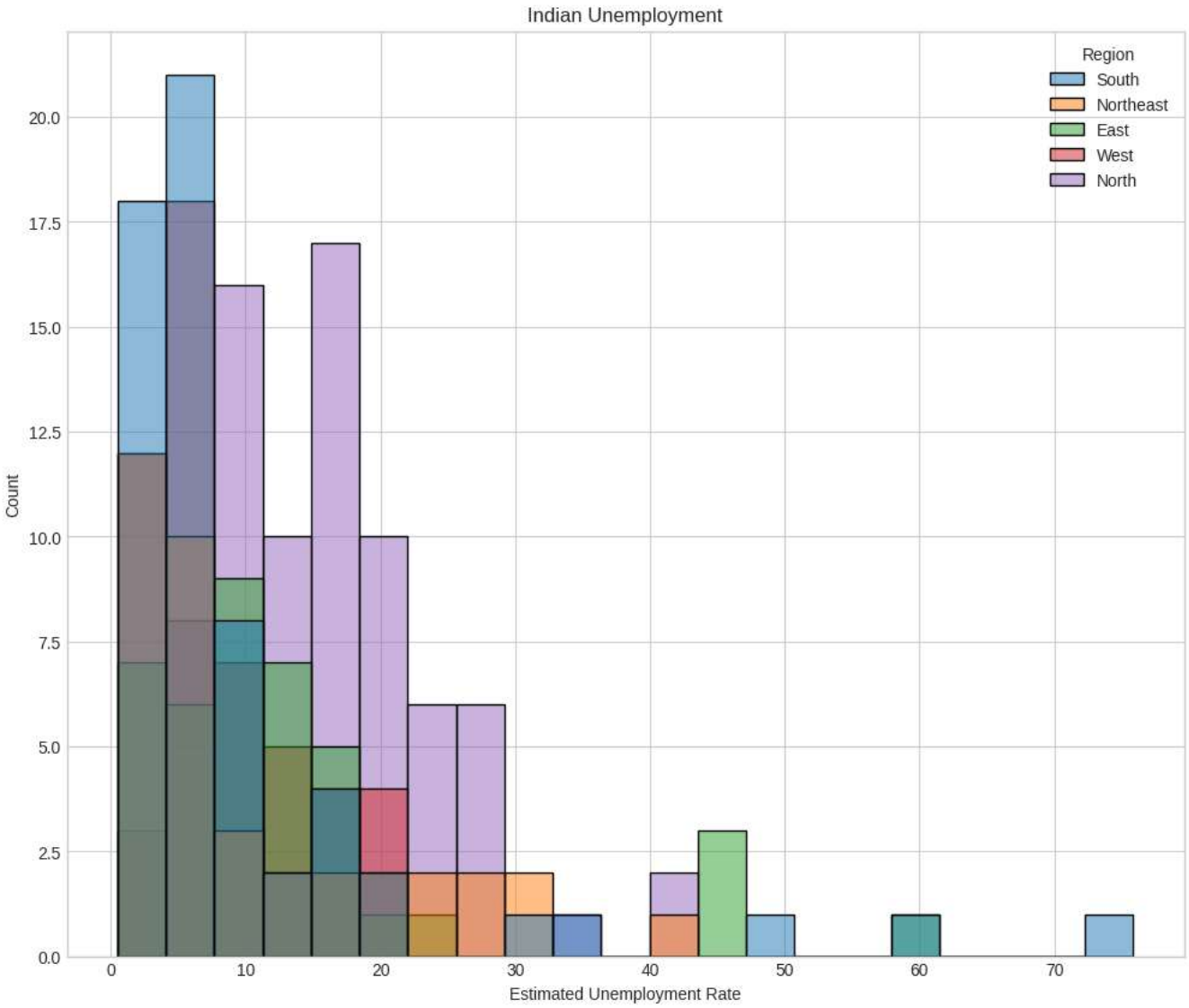


```
unemployment = data[["States","Region","Estimated Unemployment Rate"]]
figure = px.sunburst(unemployment,path=["Region","States"],
                     values ="Estimated Unemployment Rate",
                     width=700,height=700,color_continuous_scale="RdY1Gn",
                     title="Unemployment Rate in India")
figure.show()
```

Unemployment Rate in India

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