```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as plex

data = pd.read_csv("/Unemployment_Rate_upto_11_2020.csv")
print(data.head())
```

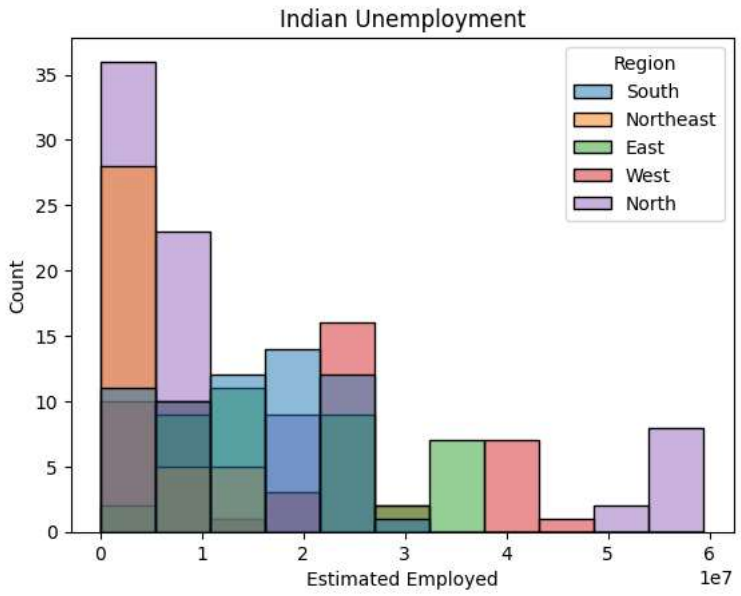
```
                Region         Date  Frequency   Estimated Unemployment Rate (%)  \
     0  Andhra Pradesh   31-01-2020          M                              5.48
     1  Andhra Pradesh   29-02-2020          M                              5.83
     2  Andhra Pradesh   31-03-2020          M                              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
```

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

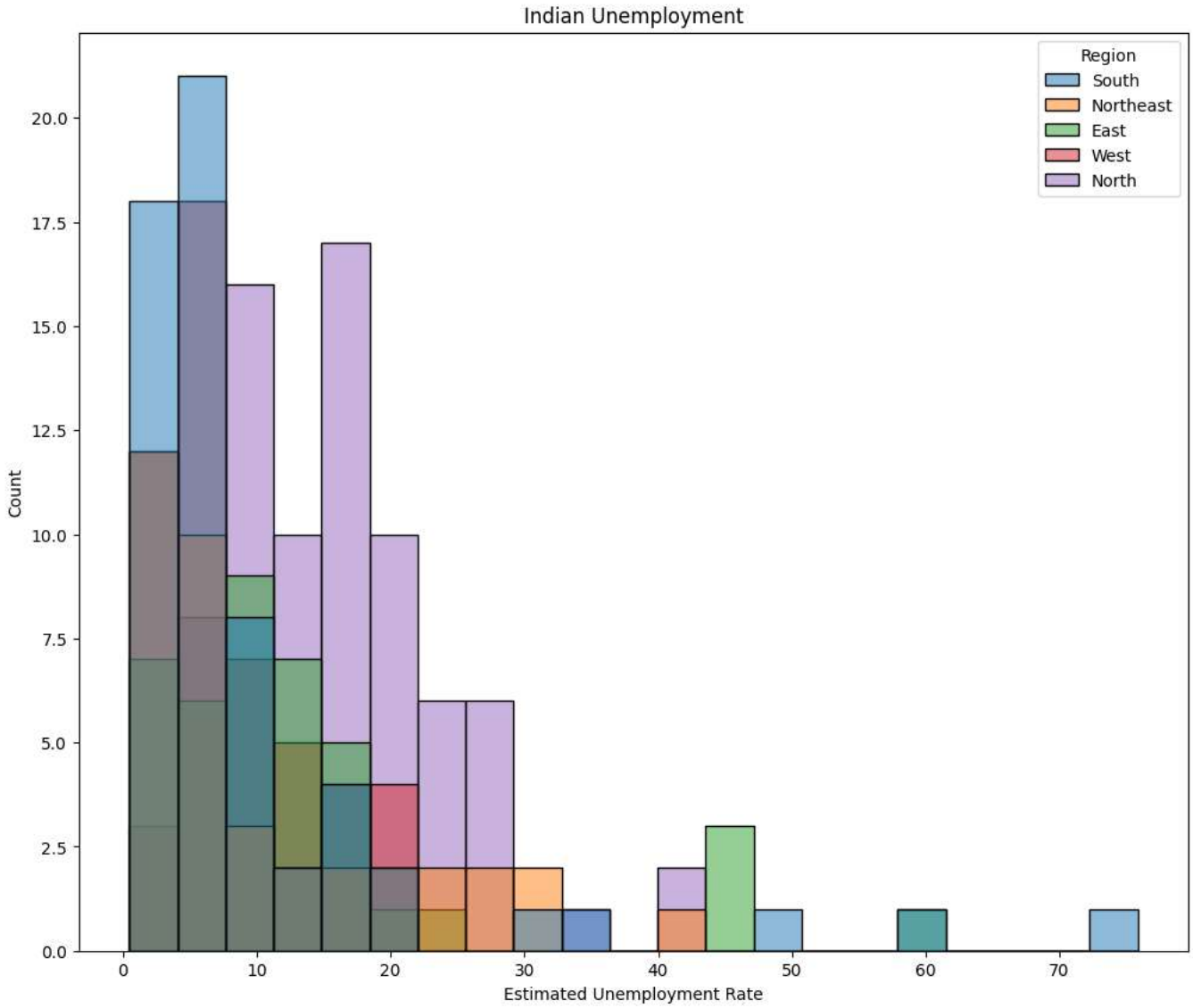
```
     Region                                0
      Date                                 0
      Frequency                            0
      Estimated Unemployment Rate (%)      0
      Estimated Employed                   0
      Estimated Labour Participation Rate (%)    0
     Region.1       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

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

```
# Let look at the estimated number of employees according to different regions of India:
plt.title("Indian Unemployment")
sns.histplot(x="Estimated Employed", hue="Region", data=data)
plt.show()
```



```
# Let's examine the unemployment rate across various regions in India:
plt.figure(figsize=(12, 10))
plt.title("Indian Unemployment")
sns.histplot(x="Estimated Unemployment Rate", hue="Region", data=data)
plt.show()
```




```
# Let's generate a dashboard to assess the unemployment rate in each Indian state based on its region. To achieve this, I will employ a sunburst plot
unemploment = data[["States", "Region", "Estimated Unemployment Rate"]]
figure = px.sunburst(unemploment, path=["Region", "States"],
                     values="Estimated Unemployment Rate",
                     width=650, height=650, color_continuous_scale="RdY1Gn",
                     title="Unemployment Rate in India")
figure.show()
```

Unemployment Rate in India