

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

data = pd.read_csv("Unemployment_Rate_upto_11_2020 - 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
```

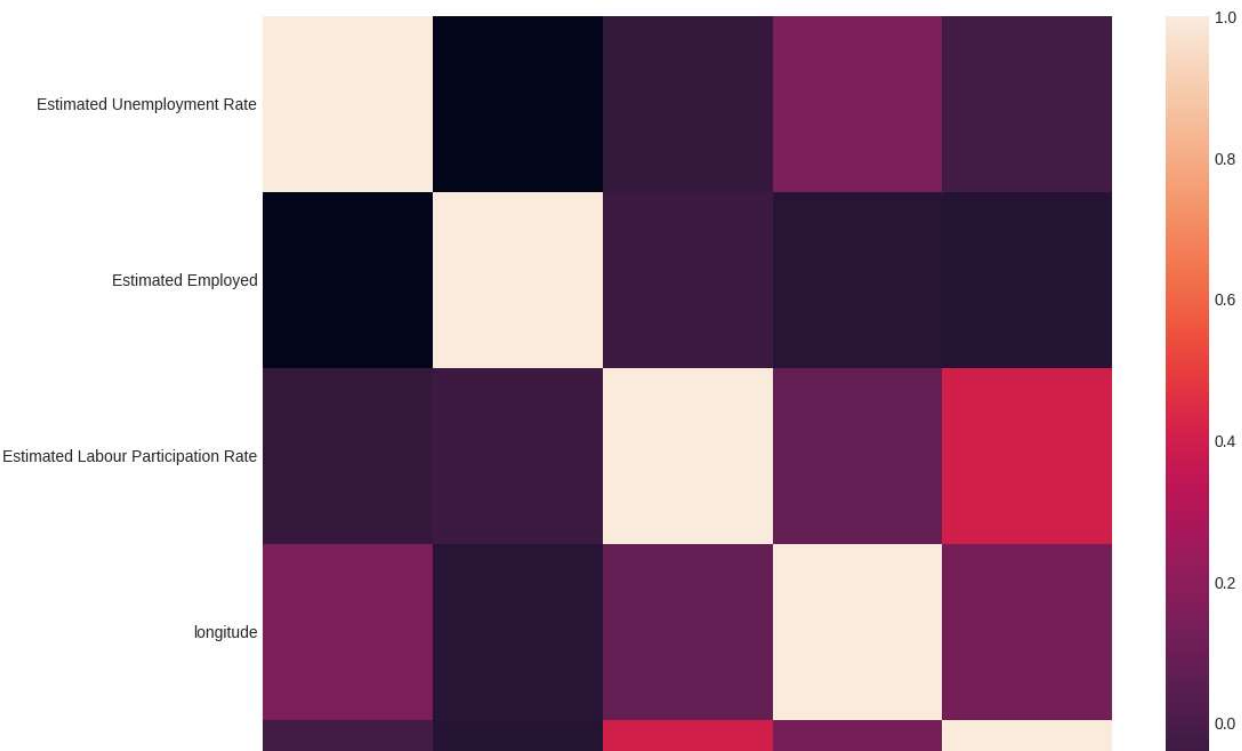
```
data.columns= ["States","Date","Frequency",
               "Estimated Unemployment Rate",
               "Estimated Employed",
               "Estimated Labour Participation Rate",
               "Region","longitude","latitude"]
```

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

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<ipython-input-8-0c964a6ebb84>:1: MatplotlibDeprecationWarning: The seaborn styles shipped by Matplotlib are deprecated sin
plt.style.use('seaborn-whitegrid')
<ipython-input-8-0c964a6ebb84>:3: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a fu
sns.heatmap(data.corr())

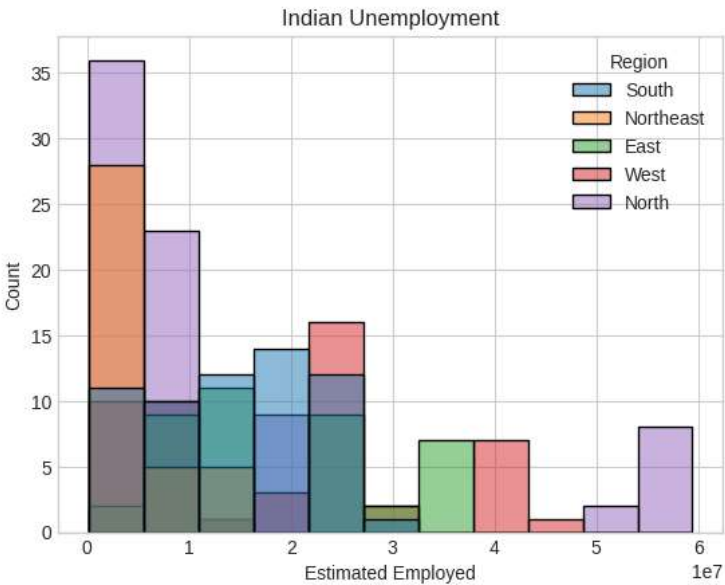
```



```

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()

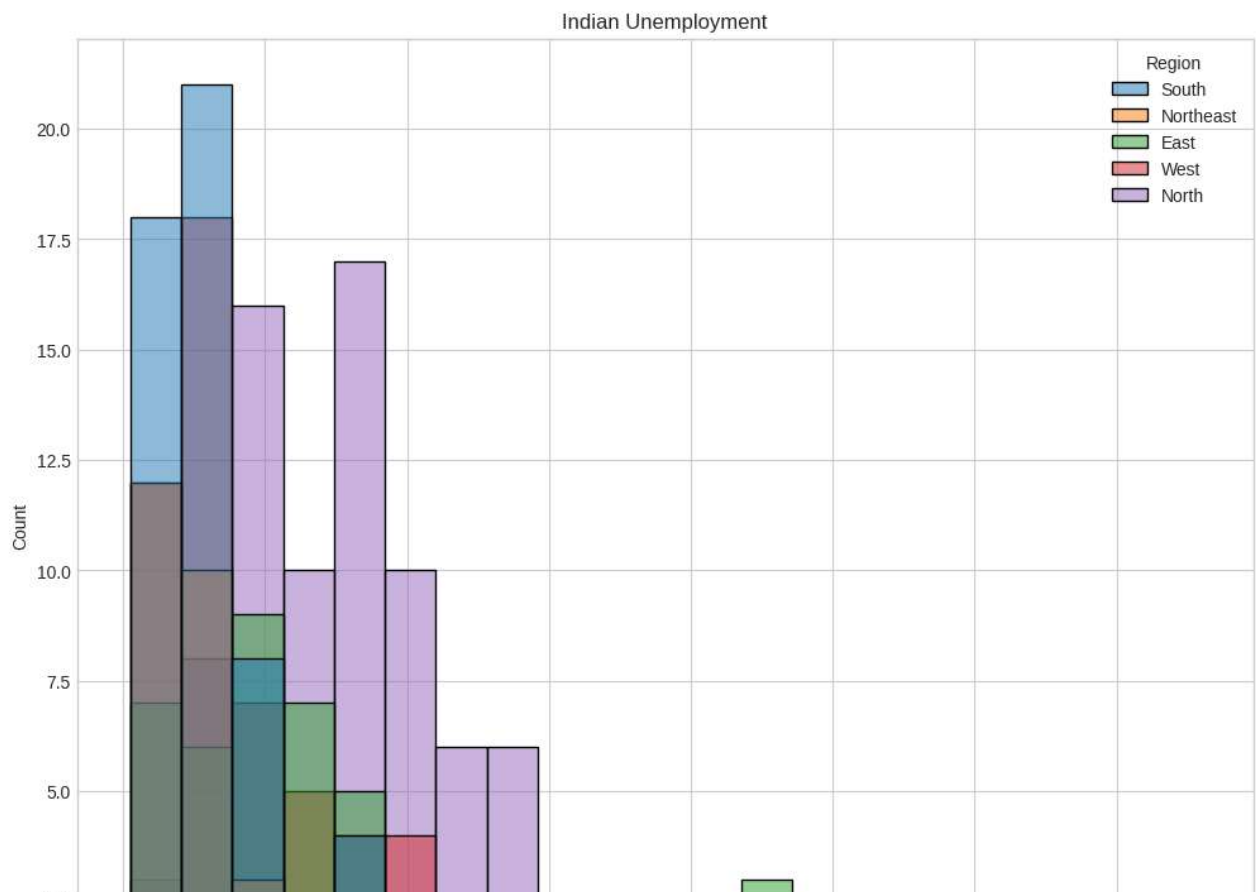
```



```

plt.figure(figsize=(12, 10))
plt.title("Indian Unemployment")
sns.histplot(x="Estimated Unemployment Rate", hue="Region", data=data)
plt.show()

```



```
unemplment = data[["States", "Region", "Estimated Unemployment Rate"]]
figure = px.sunburst(unemplment, path=["Region", "States"],
                    values="Estimated Unemployment Rate",
                    width=700, height=700, color_continuous_scale="RdY16n",
                    title="Unemployment Rate in India")
figure.show()
```

Unemployment Rate in India



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