In [87]:
```
#Name----Ankit
#Email.Id---mrankit1950@gmail.com
```

In [ ]:
```
import numpy as np
import pandas as pd

import matplotlib.pyplot as plt
import seaborn as sns       #data visualization
```

In [88]:
```
data1=pd.read_csv(r"C:\Users\ANKIT MALL-PC\Desktop\archive (15)\Unemployme
data1
```

Out[88]:

	Region	Date	Frequency	Estimated Unemployment Rate (%)	Estimated Employed	Estimated Labour Participation Rate (%)	Area
0	Andhra Pradesh	31-05-2019	Monthly	3.65	11999139.0	43.24	Rural
1	Andhra Pradesh	30-06-2019	Monthly	3.05	11755881.0	42.05	Rural
2	Andhra Pradesh	31-07-2019	Monthly	3.75	12086707.0	43.50	Rural
3	Andhra Pradesh	31-08-2019	Monthly	3.32	12285693.0	43.97	Rural
4	Andhra Pradesh	30-09-2019	Monthly	5.17	12256762.0	44.68	Rural
...	...	...	...	...	...	...	...
749	West Bengal	29-02-2020	Monthly	7.55	10871168.0	44.09	Urban
750	West Bengal	31-03-2020	Monthly	6.67	10806105.0	43.34	Urban
751	West Bengal	30-04-2020	Monthly	15.63	9299466.0	41.20	Urban
752	West Bengal	31-05-2020	Monthly	15.22	9240903.0	40.67	Urban
753	West Bengal	30-06-2020	Monthly	9.86	9088931.0	37.57	Urban

754 rows × 7 columns

In [89]:
```
data2=pd.read_csv(r"C:\Users\ANKIT MALL-PC\Desktop\archive (15)\Unemployme
data2
```

Out[89]:

	Region	Date	Frequency	Estimated Unemployment Rate (%)	Estimated Employed	Estimated Labour Participation Rate (%)	Region.1	longitude	lat
0	Andhra Pradesh	31-01-2020	M	5.48	16635535	41.02	South	15.9129	7
1	Andhra Pradesh	29-02-2020	M	5.83	16545652	40.90	South	15.9129	7
2	Andhra Pradesh	31-03-2020	M	5.79	15881197	39.18	South	15.9129	7
3	Andhra Pradesh	30-04-2020	M	20.51	11336911	33.10	South	15.9129	7
4	Andhra Pradesh	31-05-2020	M	17.43	12988845	36.46	South	15.9129	7
...	...	...	...	...	...	...	...	...	
262	West Bengal	30-06-2020	M	7.29	30726310	40.39	East	22.9868	8
263	West Bengal	31-07-2020	M	6.83	35372506	46.17	East	22.9868	8
264	West Bengal	31-08-2020	M	14.87	33298644	47.48	East	22.9868	8
265	West Bengal	30-09-2020	M	9.35	35707239	47.73	East	22.9868	8
266	West Bengal	31-10-2020	M	9.98	33962549	45.63	East	22.9868	8

267 rows × 9 columns

In [90]:
```
print(data2.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
```

In [ ]:
```

```

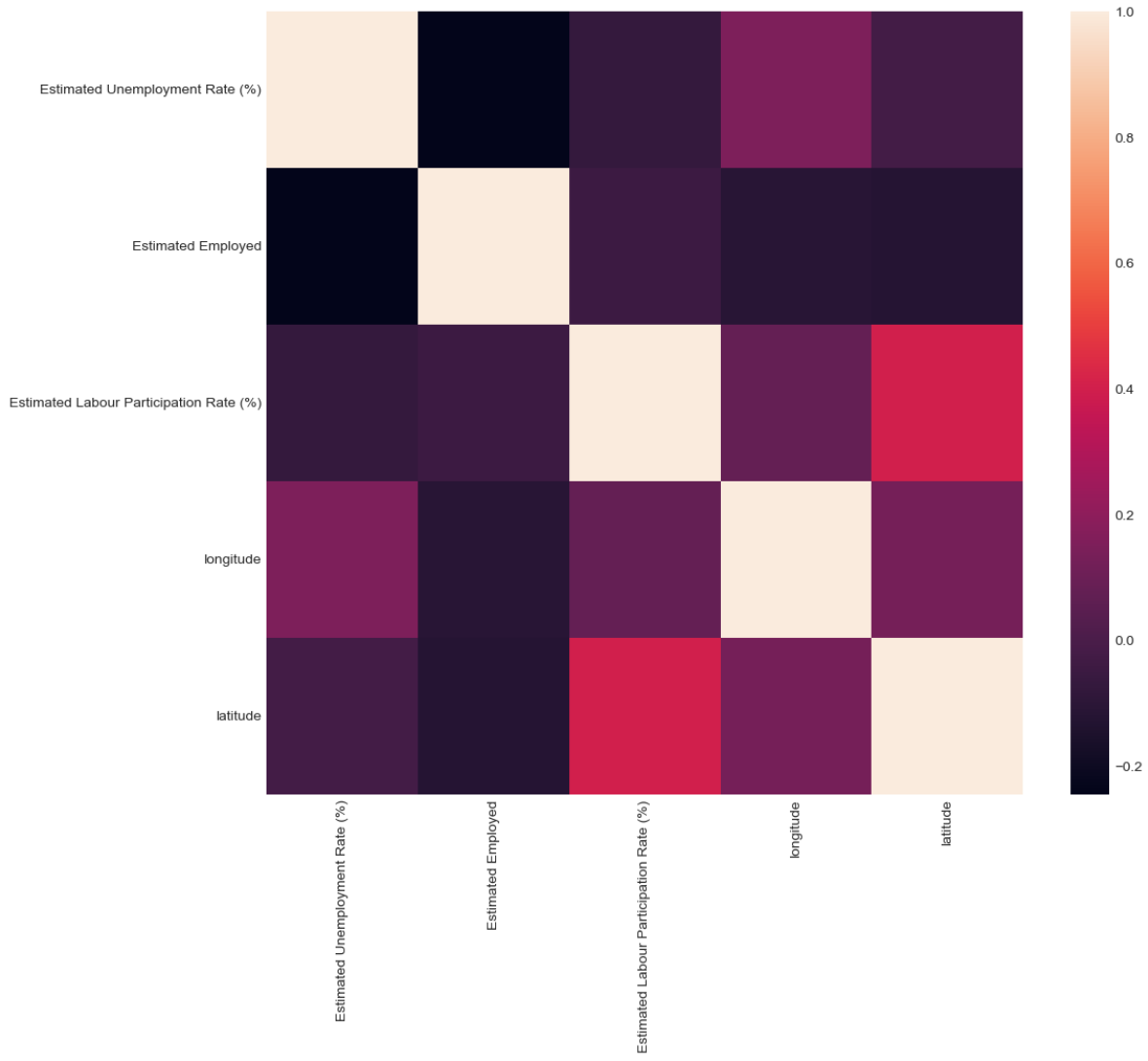
In [ ]:
```

```

In [91]:
```
data2.columns=['Region','Date','Frequency','Estimated Unemployment Rate (%
             ,'Estimated Labour Participation Rate (%)','Region.1','longit
```

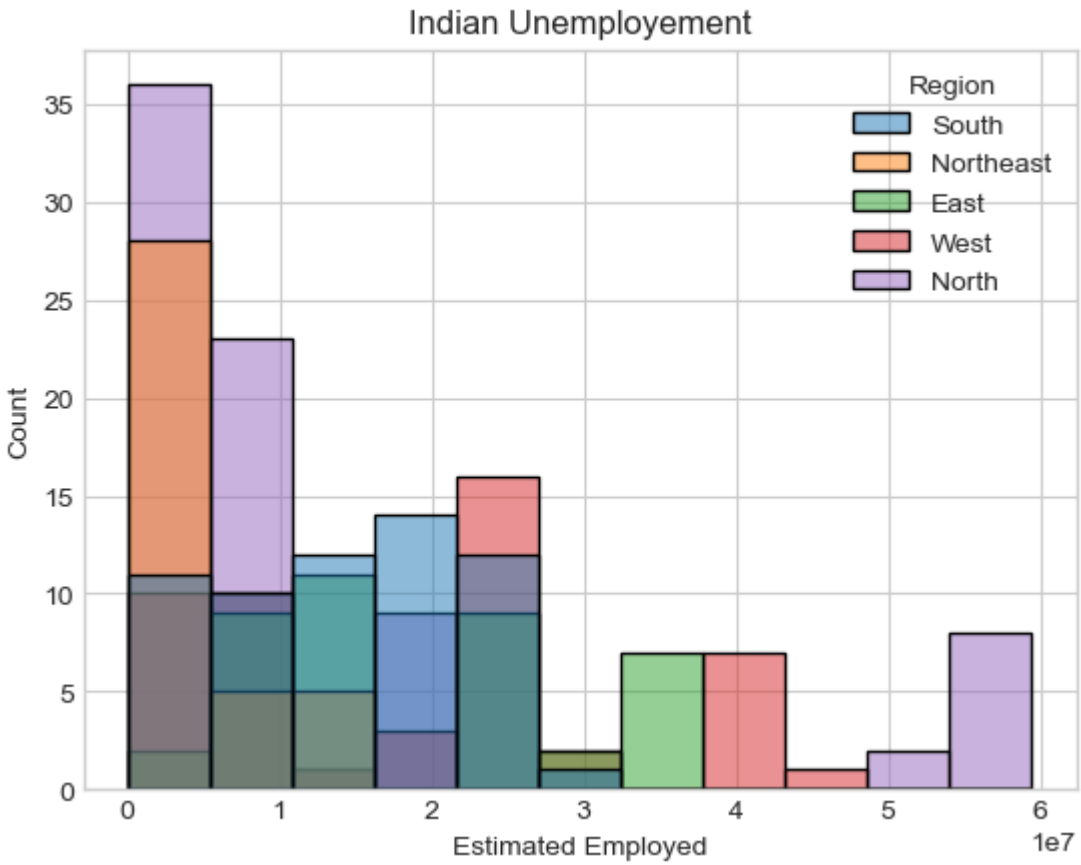
In [92]:
```
1 plt.style.use('seaborn-whitegrid')
2 plt.figure(figsize=(12,10))
3 sns.heatmap(data.corr())
```

Out[92]: <AxesSubplot:>



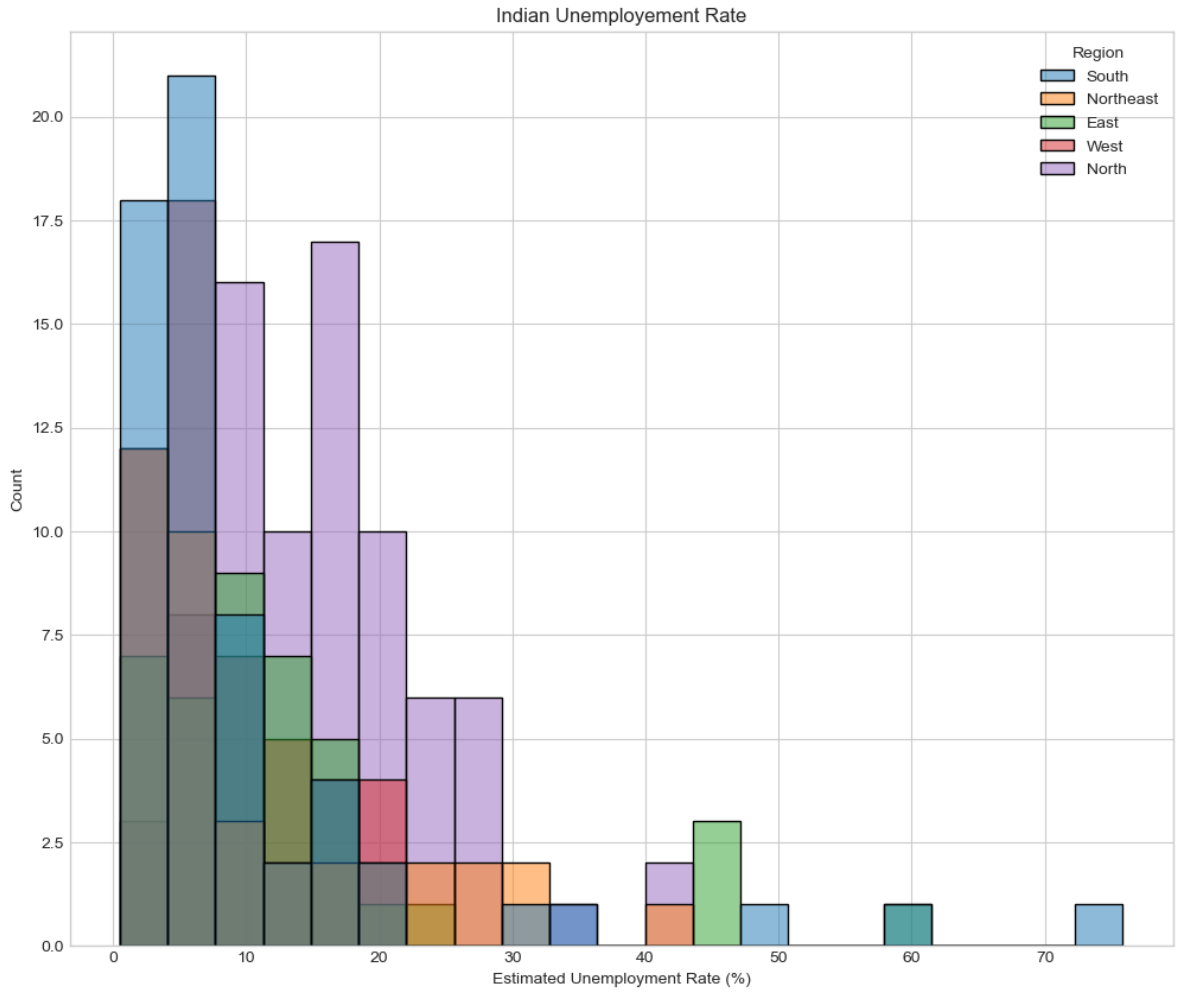
In [115]:

```
data2.columns=['States','Date','Frequency','Estimated Unemployment Rate (%
             ,'Estimated Labour Participation Rate (%)','Region','longitud
plt.title("Indian Unemployement")
sns.histplot(x="Estimated Employed",hue="Region",data=data2)
plt.show()
```



In [116]:

```
plt.figure(figsize=(12,10))
plt.title("Indian Unemployement Rate")
sns.histplot(x="Estimated Unemployment Rate (%)",hue="Region",data=data2)
plt.show()
```



In [117]:

```
import plotly.express as px
unemployement=data2[["States","Region","Estimated Unemployment Rate (%)"]]
```

In [125]:

```
figure=px.sunburst(unemployement,path=["Region","States"],
                   values="Estimated Unemployment Rate (%)",
                   width=800,height=700,color_continuous_scale="RdY1Gn",
                   title="Unemployement Rate in India")
figure.show()
```