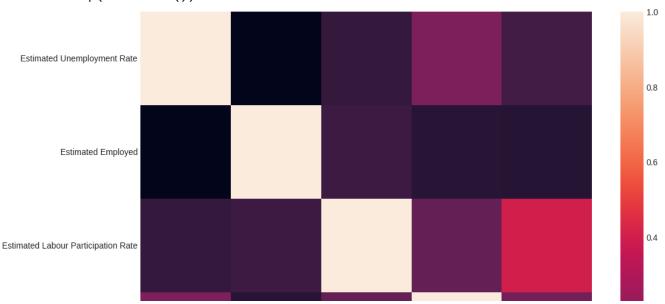
## Unemployment Analysis with Python

Double-click (or enter) to edit

```
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("https://raw.githubusercontent.com/amankharwal/Website-data/master/unempl
print(data.head())
                Region
                                                  Estimated Unemployment Rate (%) \
                                Date
                                      Frequency
     0 Andhra Pradesh
                         31-01-2020
                                              Μ
                                                                               5.48
     1 Andhra Pradesh
                                                                               5.83
                         29-02-2020
                                              Μ
     2 Andhra Pradesh
                                              Μ
                                                                               5.79
                         31-03-2020
     3 Andhra Pradesh
                                                                              20.51
                         30-04-2020
                                              Μ
     4 Andhra Pradesh
                                              Μ
                                                                             17.43
                         31-05-2020
         Estimated Employed
                               Estimated Labour Participation Rate (%) Region.1 \
     0
                                                                           South
                   16635535
                                                                  41.02
     1
                                                                  40.90
                   16545652
                                                                           South
     2
                                                                  39.18
                   15881197
                                                                           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
          15.9129
     4
                      79.74
print(data.isnull().sum())
                                                   0
     Region
     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
```

<ipython-input-13-0c964a6ebb84>:1: MatplotlibDeprecationWarning: The seaborn styles ship
plt.style.use('seaborn-whitegrid')

<ipython-input-13-0c964a6ebb84>:3: FutureWarning: The default value of numeric\_only in [
 sns.heatmap(data.corr())



## Indian Hnomployment

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

Indian Haamalaumant

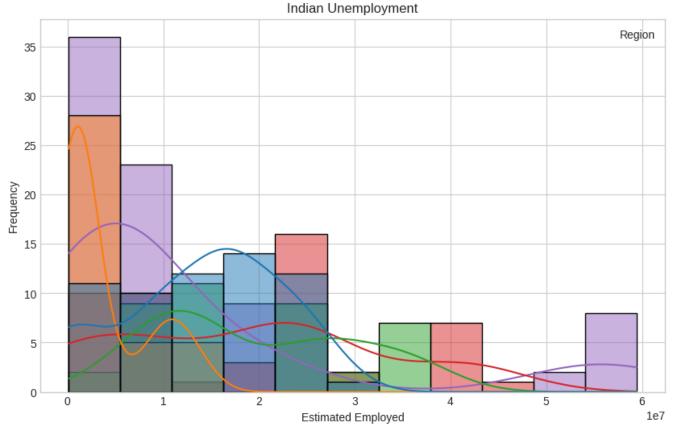
## Unemployment Rate in India



```
import matplotlib.pyplot as plt
import seaborn as sns
```

```
plt.figure(figsize=(10, 6))
plt.title("Indian Unemployment")
sns.histplot(x="Estimated Employed", hue="Region", data=data, kde=True)
plt.xlabel("Estimated Employed")
plt.ylabel("Frequency")
plt.legend(title="Region")
plt.show()
```

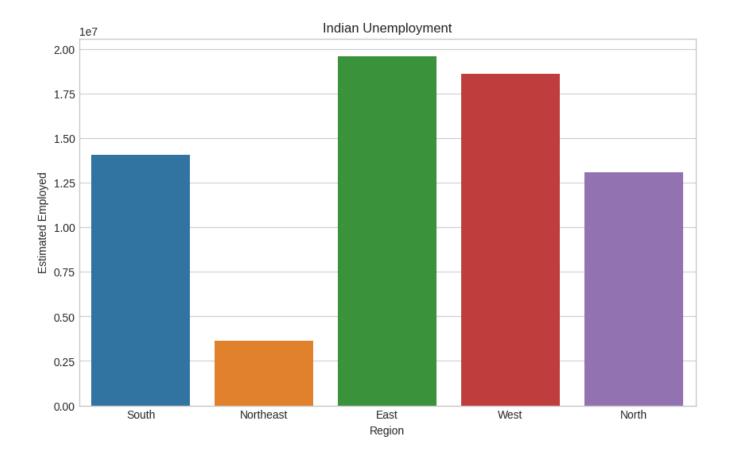
WARNING:matplotlib.legend:No artists with labels found to put in legend. Note that arti



```
plt.figure(figsize=(10, 6))
plt.title("Indian Unemployment")
sns.barplot(x="Region", y="Estimated Employed", data=data, ci=None)
plt.xlabel("Region")
plt.ylabel("Estimated Employed")
plt.show()
```

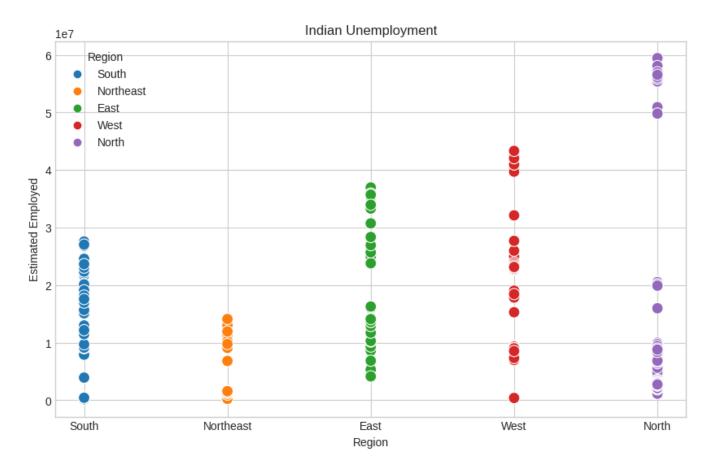
<ipython-input-20-7e3a866894f5>:3: FutureWarning:

The `ci` parameter is deprecated. Use `errorbar=None` for the same effect.

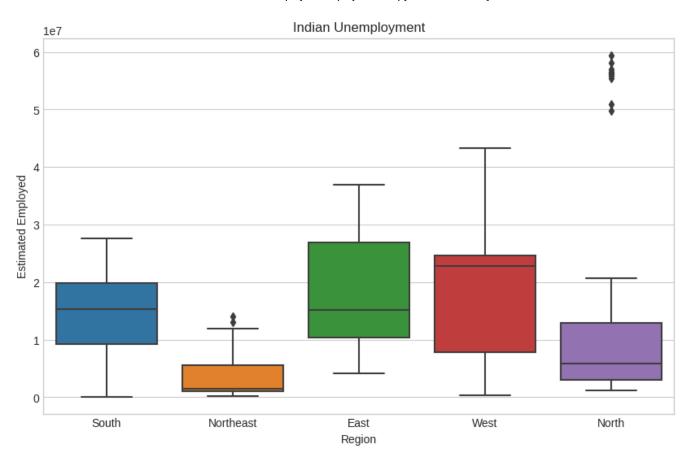


```
plt.figure(figsize=(10, 6))
plt.title("Indian Unemployment")
sns.scatterplot(x="Region", y="Estimated Employed", data=data, hue="Region", s=100)

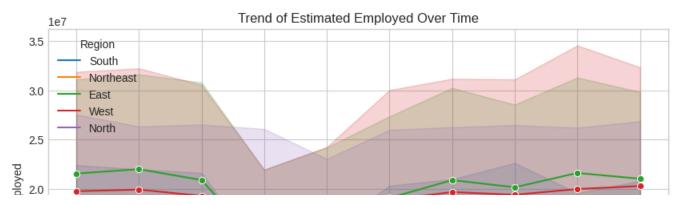
plt.xlabel("Region")
plt.ylabel("Estimated Employed")
plt.legend(title="Region")
plt.show()
```



```
plt.figure(figsize=(10, 6))
plt.title("Indian Unemployment")
sns.boxplot(x="Region", y="Estimated Employed", data=data)
plt.xlabel("Region")
plt.ylabel("Estimated Employed")
plt.show()
```



```
plt.figure(figsize=(10, 6))
plt.title("Trend of Estimated Employed Over Time")
sns.lineplot(x="Date", y="Estimated Employed", data=data, hue="Region", marker="o")
plt.xlabel("Date")
plt.ylabel("Estimated Employed")
plt.legend(title="Region", loc="upper left")
plt.show()
```



plt.figure(figsize=(10, 6))
plt.title("Distribution of Estimated Employed")
sns.histplot(data["Estimated Employed"], bins=20, kde=True)
plt.xlabel("Estimated Employed")
plt.ylabel("Frequency")
plt.show()

