In [1]:	Importing Libraries  import numpy as np				
-	<pre>import pandas as pd import matplotlib.pyplot as plt import seaborn as sns</pre> Data Collection				
In [2]: Out[2]:	df=pd.read_csv(r"D:\UNEMPLOYMENT_IN_df  Region Date Frequency  O Andhra Pradesh 31-05-2019 Monthly  1 Andhra Pradesh 30-06-2019 Monthly  2 Andhra Pradesh 31-07-2019 Monthly  3 Andhra Pradesh 31-08-2019 Monthly  4 Andhra Pradesh 30-09-2019 Monthly   749 West Bengal 29-02-2020 Monthly  750 West Bengal 31-03-2020 Monthly  751 West Bengal 31-03-2020 Monthly  752 West Bengal 31-05-2020 Monthly  753 West Bengal 30-06-2020 Monthly  754 rows × 7 columns		Estimated Employed   Estimated Employed   11999139.0   11755881.0   12086707.0   12285693.0   12256762.0   10871168.0   10806105.0   9299466.0   9240903.0   9088931.0   10806105.0   10806	43.50 43.97 44.68  44.09 43.34 41.20 40.67	Rural Rural Rural Rural Rural
In [3]: Out[3]:	(754 7)				
In [4]: Out[4]:	Region Date Frequency Es  O Andhra Pradesh 31-05-2019 Monthly  1 Andhra Pradesh 30-06-2019 Monthly  2 Andhra Pradesh 31-07-2019 Monthly  3 Andhra Pradesh 31-08-2019 Monthly  4 Andhra Pradesh 30-09-2019 Monthly  5 Andhra Pradesh 31-10-2019 Monthly  6 Andhra Pradesh 30-11-2019 Monthly  7 Andhra Pradesh 31-12-2019 Monthly  8 Andhra Pradesh 31-01-2020 Monthly  9 Andhra Pradesh 29-02-2020 Monthly	3.65 3.05 3.75 3.32 5.17 3.52 4.12 4.38 4.84 5.91	11999139.0 11755881.0 12086707.0 12285693.0 12256762.0 12017412.0 11397681.0 12528395.0 12016676.0 11723617.0	43.24 42.05 43.50 43.97 44.68 43.01 41.00 45.14 43.46 42.83	Rural
In [5]: Out[5]:	Region Date Frequency Est  749 West Bengal 29-02-2020 Monthly  750 West Bengal 31-03-2020 Monthly  751 West Bengal 30-04-2020 Monthly  752 West Bengal 31-05-2020 Monthly  753 West Bengal 30-06-2020 Monthly  EDA Before Preprocessing	7.55 6.67 15.63 15.22 9.86	10871168.0 10806105.0 9299466.0 9240903.0 9088931.0	ed Labour Participation Rate (%)  44.09 U  43.34 U  41.20 U  40.67 U  37.57 U	Irban Irban Irban Irban
In [6]: Out[6]:	<ul> <li>0 False False</li> <li>1 False False</li> <li>2 False False</li> <li>3 False False</li> <li>4 False False</li> <li>5 False</li> <li>749 False False</li> <li>750 False False</li> <li>751 False False</li> <li>752 False False</li> <li>753 False False</li> <li>756 False False</li> <li>757 False False</li> <li>758 False False</li> <li>759 False False</li> <li>750 False False</li> <li>751 False False</li> <li>752 False False</li> <li>753 False False</li> <li>754 False False</li> <li>755 False False</li> <li>756 False</li> <li>757 False False</li> <li>758 False</li> <li>759 False</li> <li>750 False False</li> <li>751 False False</li> <li>752 False False</li> <li>753 False False</li> </ul>	False	mployed Estimated Labour  False	Participation Rate (%)  False	
In [7]:	df.info() <class #="" 'pandas.core.frame.dataframe'="" (%="" (total="" 0="" 1="" 2="" 3="" 4="" 41.4+="" 5="" 6="" 7="" 753="" 754="" area="" column="" columns="" columns):="" data="" date="" df.isnull().sum()<="" dtypes:="" employed="" entries,="" estimated="" float64(3),="" frequency="" kb="" labour="" memory="" object(4)="" participation="" rangeindex:="" rate="" region="" td="" to="" unemployment="" usage:=""><td>Non-Null Count </td><td>Dtype object object object float64 float64 float64 object</td><td></td><td></td></class>	Non-Null Count 	Dtype object object object float64 float64 float64 object		
Out[8]:	Region Date Frequency Estimated Unemployment Rate (%) Estimated Employed Estimated Labour Participation Rate Area dtype: int64	14 14 14 14 14 14 14 14			
<pre>In [9]: Out[9]: In [10]:</pre>	### Estimated Unemployment Rate (%)   ### Estimated Unemployment Rate	7.400000e+02 7.204460e+06 8.087988e+06 4.942000e+04 1.190404e+06 4.744178e+06 1.127549e+07 4.577751e+07	740.000000 42.630122 8.111094 13.330000 38.062500 41.160000 45.505000 72.570000		
Out[10]:	Region         Date         Frequency         E           10         Andhra Pradesh         31-03-2020         Monthly           11         Andhra Pradesh         30-04-2020         Monthly           12         Andhra Pradesh         31-05-2020         Monthly           13         Andhra Pradesh         30-06-2020         Monthly           14         Assam         31-05-2019         Monthly           15         Assam         30-06-2019         Monthly           16         Assam         31-07-2019         Monthly           17         Assam         31-08-2019         Monthly           18         Assam         30-09-2019         Monthly           19         Assam         31-10-2019         Monthly	\$\text{stimated Unemployment Rate (%)}\$  4.06  16.29  14.46  0.85  4.29  5.08  4.26  5.79  4.46  4.65	Estimated Employed Estimated Employed   11359660.0	40.66 40.66 36.03 38.16 53.76 57.39 43.87 48.21 45.83 55.67 40.76	Rural
<pre>In [11]: In [12]: Out[12]: In [13]:</pre>	<pre>df.dropna(inplace=True)  df.isnull().sum()  Region   Date   Frequency   Estimated Unemployment Rate (%)   Estimated Employed   Estimated Labour Participation Rate Area dtype: int64  df.shape</pre>	0 0 0 0 0 0			
Out[13]:  In [14]:  Out[14]:  In [15]:	(740 7)				
Out[15]:	Estimated Unemployment Rate (%)  1				
	<pre>739 rows × 1 columns  sns.barplot(df.iloc[1:,3]) plt.title("Unemployment Rate") plt.xlabel("Unemployment") plt.ylabel("Frequency") plt.show()  C:\ProgramData\Anaconda3\lib\site-pa on 0.12, the only valid positional a isinterpretation.     warnings.warn(</pre>				
	Lednency 2 4 6 8 10	0 12			
In [18]:	sns.histplot(df.iloc[1:,3]) plt.title("Unemployment Rate") plt.xlabel("Unemployment Rate %") plt.ylabel("Frequency") plt.show()  Unemployment Rate  Unemployment Rate	60 70 80			
In [28]: In [30]: In [33]:	<pre>df.drop(['Region', ' Frequency', 'Are  df[' Date'] = pd.to_datetime(df[' Date'])  df.info()  <class #="" 'pandas.core.frame.dataframe'="" (%="" (total="" 0="" 1="" 2="" 3="" 4="" 45.1="" 740="" 753="" column="" columns="" columns):="" data="" date="" datetime64[ns](1),="" dtypes:="" employed="" entries,="" estimated="" float64(3="" int64index:="" kb<="" labour="" memory="" participation="" pre="" rate="" to="" unemployment="" usage:=""></class></pre>	Non-Null Count 740 non-null 740 non-null 740 non-null 740 non-null 740 non-null			
<pre>In [34]: In [38]: In [ ]:</pre>	df.set_index(' Date', inplace=True)  sns.histplot(df[' Estimated Unemployplt.title('Unemployment Rate Over Tiplt.xlabel('Date')plt.ylabel('Unemployment Rate (%)')plt.show()  Unemployment Rate Over Tiplt.show()  Unemployment Rate Over Tiplt.show()	me')			
In [ ]:					