AKSHAT

Task 3 by Oasis Infobyte (Unemployment Analysis in India)

#import the required libraries
import numpy as np
import pandas as pd
import plotly.express as px
import matplotlib.pyplot as plt

raw_csv_data = pd.read_csv("Unemployment in India.csv")
df = raw_csv_data.copy()

df.head()

	Region	Date	Frequency	Estimated Unemployment Rate (%)	Estimated Employed	Estimated Labour Participat Rate
0	Andhra Pradesh	31 - 05 - 2019	Monthly	3.65	11999139.0	4:
1	Andhra Pradesh	30 - 06- 2019	Monthly	3.05	11755881.0	42
2	Andhra Pradesh	31 - 07 - 2019	Monthly	3.75	12086707.0	4:
3	Andhra Pradesh	31 - 08 - 2019	Monthly	3.32	12285693.0	4:
4	Andhra Pradesh	30 - 09- 2019	Monthly	5.17	12256762.0	44



df.tail()

		Region	Date	Frequency	Estimated Unemployment Rat (%		Estimated Labour Participation F
•	763	NaN	NaN	NaN	Nal	NaN	
•	764	NaN	NaN	NaN	Nal	NaN	
•	765	NaN	NaN	NaN	Nal	NaN	
	766	NaN	NaN	NaN	Nal	NaN	
	767	NaN	NaN	NaN	Nal	NaN	



df.shape

(768, 7)

df.isnull().sum()

Region 28 Date 28 Frequency 28
Estimated Unemployment Rate (%) 28
Estimated Employed 28
Estimated Labour Participation Rate (%) 28
Area 28

dtype: int64

df.dropna()

	Region	Date	Frequency	Estimated Unemployment Rate (%)	Estimated Employed	Estimated Labour Participati Rate (
0	Andhra Pradesh	31 - 05- 2019	Monthly	3.65	11999139.0	43
1	Andhra Pradesh	30 - 06- 2019	Monthly	3.05	11755881.0	42
2	Andhra Pradesh	31 - 07 - 2019	Monthly	3.75	12086707.0	43
3	Andhra Pradesh	31 - 08- 2019	Monthly	3.32	12285693.0	43
4	Andhra Pradesh	30 - 09 - 2019	Monthly	5.17	12256762.0	44
749	West Bengal	29 - 02 - 2020	Monthly	7.55	10871168.0	44
750	West Bengal	31 - 03- 2020	Monthly	6.67	10806105.0	43
751	West Bengal	30 - 04 - 2020	Monthly	15.63	9299466.0	41
752	West Bengal	31 - 05- 2020	Monthly	15.22	9240903.0	40
753	West Bengal	30 - 06- 2020	Monthly	9.86	9088931.0	37

740 rows × 7 columns



df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 768 entries, 0 to 767
Data columns (total 7 columns):

#	Column	Non-Null Count	Dtype
0	Region	740 non-null	object
1	Date	740 non-null	object
2	Frequency	740 non-null	object
3	Estimated Unemployment Rate (%)	740 non-null	float64
4	Estimated Employed	740 non-null	float64
5	Estimated Labour Participation Rate (%)	740 non-null	float64
6	Area	740 non-null	object

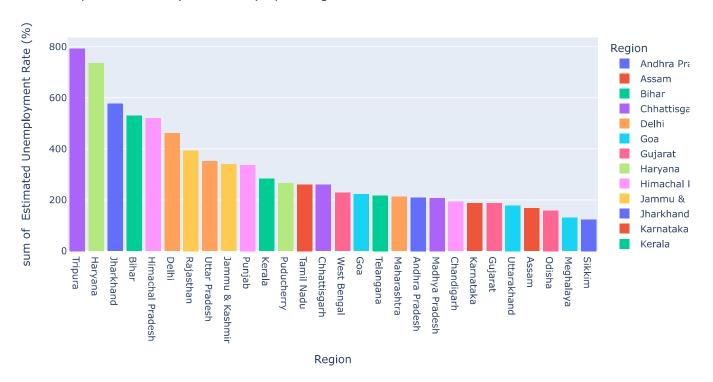
dtypes: float64(3), object(4)
memory usage: 42.1+ KB

x = df['Region']

```
y = df[' Estimated Unemployment Rate (%)']
df1 = df.iloc[:,3]
df1
     0
            3.65
     1
            3.05
     2
            3.75
     3
            3.32
     4
            5.17
     763
             NaN
     764
             NaN
     765
             NaN
     766
             NaN
     767
             NaN
     Name:
            Estimated Unemployment Rate (%), Length: 768, dtype: float64
```

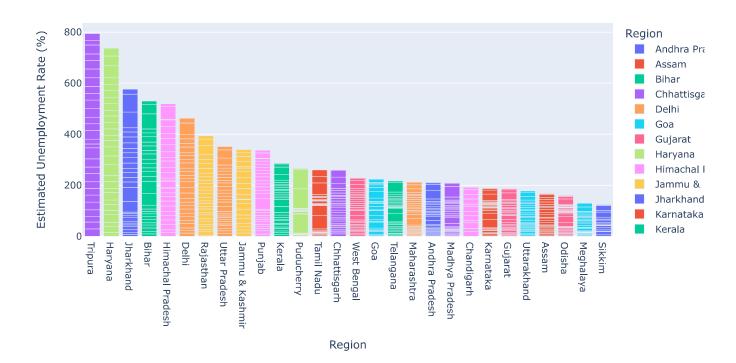
Analysing data by Histogram

Unemploment Rate (State Wise) by Histogram



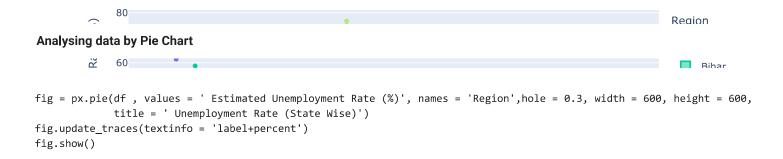
Analysing data by bar graph

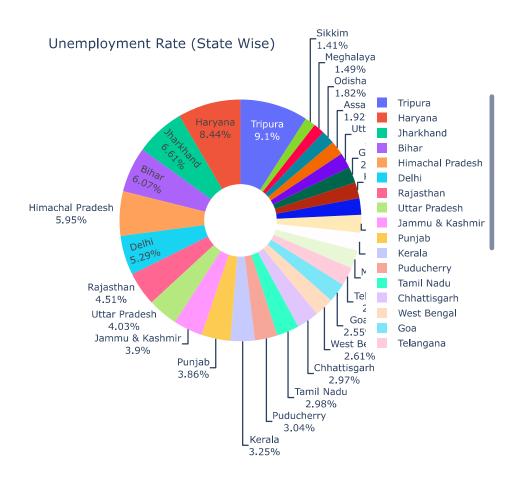
Unemploment Rate (State Wise) by bar graph



Analysing data by Box Plot

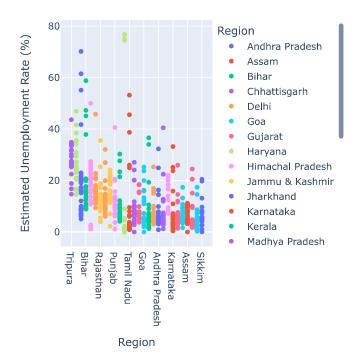
Unemploment Rate (State Wise) by Box Plot





Analysing Data by Scatter Plot

Unemployment Rate (State Wise) by Scatter Plot



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