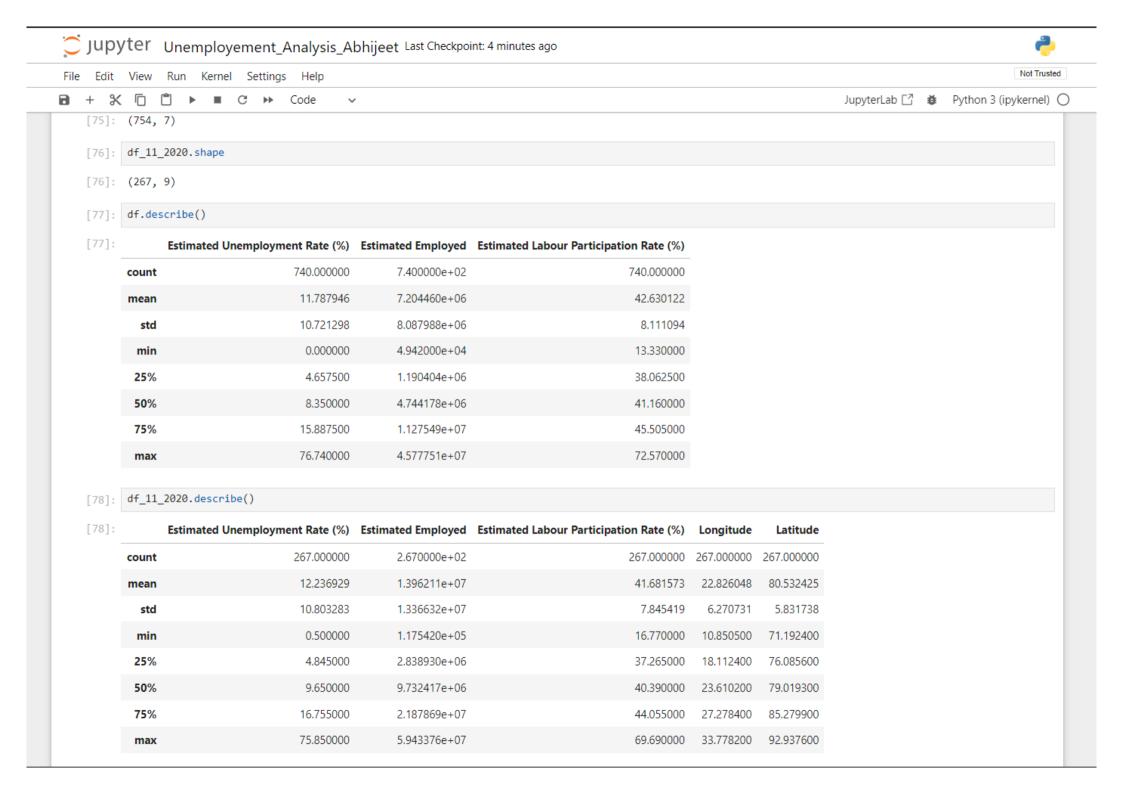


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+ %	☐ ☐ ▶ ■ C → Code ∨				Jupyt	terLab 🖸	<b>ĕ</b> Python :	3 (ipykernel)
	<b>4</b> Andhra 31-05- Pradesh 2020 M		17.43	12988845	36.46	South	15.9129	79.74
[73]:	df.info()							
	<pre><class 'pandas.core.frame.dataframe'=""> RangeIndex: 754 entries, 0 to 753 Data columns (total 7 columns): # Column</class></pre>	Non-Null Count						
	<pre>0 Region 1 Date 2 Frequency 3 Estimated Unemployment Rate (%) 4 Estimated Employed 5 Estimated Labour Participation Rate (%) 6 Area dtypes: float64(3), object(4) memory usage: 41.4+ KB</pre>	740 non-null 740 non-null 740 non-null 740 non-null 740 non-null	object object object float64 float64 object					
[74]:	df_11_2020.info()							
	<pre><class 'pandas.core.frame.dataframe'=""> RangeIndex: 267 entries, 0 to 266 Data columns (total 9 columns): # Column 0 Region 1 Date 2 Frequency 3 Estimated Unemployment Rate (%) 4 Estimated Employed 5 Estimated Labour Participation Rate (%) 6 Region.1 7 Longitude 8 Latitude dtypes: float64(4), int64(1), object(4)</class></pre>	Non-Null Count 						
[751:	memory usage: 18.9+ KB df.shape							
	(754, 7)							
F - 3 -								





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							., _	_	, ,,,,,,,
	75%	16.755000	2.187869e+07	44.055000	27.278400	85.279900			
	max	75.850000	5.943376e+07	69.690000	33.778200	92.937600			
[79]:	df.isnull().sum()								
[79].	Region		14						
[/2].	Date		14						
	Frequency		14						
	Estimated Unemployment Rate (	(%)	14						
	Estimated Employed	5 . (5)	14						
	Estimated Labour Participatio	on Rate (%)	14 14						
	Area dtype: int64		14						
[80]:	df_11_2020.isnull().sum()								
[80]:	Region		0						
	Date		0						
	Frequency	(84)	0						
	Estimated Unemployment Rate (	(%)	0						
	Estimated Employed Estimated Labour Participation	on Poto (%)	0						
	Region.1	on Nace (%)	0						
	Longitude		0						
	Latitude		0						
	dtype: int64								
[81]:	df.isna().sum()								
[81]:	Region		14						
	Date		14						
	Frequency	(0/)	14						
	Estimated Unemployment Rate ( Estimated Employed	(/0)	14 14						
	Estimated Employed Estimated Labour Participation	on Rate (%)	14						
	Area		14						
	dtype: int64								
[82]:	df_11_2020.isna().sum()								
[82]:	Region		0						
	Date		0						
	Frequency		0						



Not Trusted File Edit View Run Kernel Settings Help JupyterLab ☐ # Python 3 (ipykernel) ○ Code [UZ]. WI\_II\_2020.IJIW().JWII() [82]: Region 0 0 Date 0 Frequency Estimated Unemployment Rate (%) 0 Estimated Employed 0 Estimated Labour Participation Rate (%) 0 Region.1 Longitude 0 Latitude 0 dtype: int64 [83]: df = df.dropna() [84]: df.isnull().sum() 0 [84]: Region 0 Date 0 Frequency Estimated Unemployment Rate (%) 0 Estimated Employed Estimated Labour Participation Rate (%) 0 0 Area dtype: int64 [85]: df.isna().sum() [85]: Region 0 0 Date 0 Frequency Estimated Unemployment Rate (%) 0 Estimated Employed 0 Estimated Labour Participation Rate (%) 0 0 Area dtype: int64 [86]: df.shape [86]: (740, 7) [87]: df.duplicated().sum() [87]: 0

```
[87]: 0
[88]: df 11 2020.duplicated().sum()
[88]: 0
[89]: df.columns = ['State' , 'Date' , 'Frequency' , 'Estimated Unemployment Rate',
                     'Estimated Employed', 'Estimated Labour Participation Rate', 'Area']
[90]: df_11_2020.columns = ['State' , 'Date' , 'Frequency' , 'Estimated Unemployment Rate', 'Estimated Employed', 'Estimated Labour Participation Rate', 'Region'
[91]: df.columns
[91]: Index(['State', 'Date', 'Frequency', 'Estimated Unemployment Rate',
              'Estimated Employed', 'Estimated Labour Participation Rate', 'Area'],
             dtype='object')
[92]: df 11 2020.columns
[92]: Index(['State', 'Date', 'Frequency', 'Estimated Unemployment Rate',
              'Estimated Employed', 'Estimated Labour Participation Rate', 'Region',
              'Longitude', 'Latitude'],
             dtype='object')
[93]: df.head(2)
[93]:
                  State
                             Date Frequency Estimated Unemployment Rate Estimated Employed Estimated Labour Participation Rate Area
       O Andhra Pradesh 31-05-2019
                                      Monthly
                                                                                    11999139.0
                                                                                                                          43.24 Rural
       1 Andhra Pradesh 30-06-2019
                                     Monthly
                                                                      3.05
                                                                                    11755881.0
                                                                                                                          42.05 Rural
[94]: df 11 2020.head(2)
[94]:
                             Date Frequency Estimated Unemployment Rate Estimated Employed Estimated Labour Participation Rate Region Longitude Latitude
                  State
       O Andhra Pradesh 31-01-2020
                                           Μ
                                                                                                                                                     79.74
                                                                      5.48
                                                                                     16635535
                                                                                                                          41.02
                                                                                                                                 South
                                                                                                                                          15.9129
       1 Andhra Pradesh 29-02-2020
                                                                      5.83
                                                                                     16545652
                                                                                                                                          15,9129
                                                                                                                                                     79.74
                                           М
                                                                                                                          40.90
                                                                                                                                 South
[95]: #State with highest unemployment rate
```

```
[95]: #State with highest unemployment rate
      df['State'].value_counts().idxmax()
[95]: 'Andhra Pradesh'
[96]: df['State'].value_counts()
[96]: State
      Andhra Pradesh
                          28
      Kerala
                          28
      West Bengal
                          28
      Uttar Pradesh
                          28
      Tripura
                          28
                          28
      Telangana
      Tamil Nadu
                          28
      Rajasthan
                          28
      Punjab
                          28
      Odisha
                          28
      Madhya Pradesh
                          28
      Maharashtra
                          28
      Karnataka
                          28
      Jharkhand
                          28
      Himachal Pradesh
                          28
      Haryana
                          28
      Gujarat
                          28
      Delhi
                          28
      Chhattisgarh
                          28
      Bihar
                          28
      Meghalaya
                          27
      Uttarakhand
                          27
                          26
      Assam
                          26
      Puducherry
      Goa
                          24
      Jammu & Kashmir
                          21
                          17
      Sikkim
      Chandigarh
                          12
      Name: count, dtype: int64
[97]: df_11_2020['State'].value_counts().idxmax()
[97]: 'Andhra Pradesh'
```

```
df 11 2020['State'].value counts().idxmax()
 [97]: 'Andhra Pradesh'
 [98]: # State with lowest unemployment rate
       df['State'].value counts().idxmin()
 [98]: 'Chandigarh'
 [99]: df_11_2020['State'].value_counts().idxmin()
 [99]: 'Sikkim'
[100]: # Month of Employment
       # This code converts the 'Date' coloumn to a datetime type, extracts months as integer, and adds a new coloumn with the corresponding three-letter month a
       import datetime as dt
       import calendar as cal
       df['Date'] = pd.to datetime(df['Date'], dayfirst=True) #This line converts the 'Date' coloumn in dataframe to datetime type.
       df['month int'] = df['Date'].dt.month
                                                        #This line extracts month component from 'Date' coloumn and assigns it to a new coloumn called 'month
       df['month'] = df['month_int'].apply(lambda x: cal.month_abbr[x]) #This line creates a mew coloumn 'month' in the dataframe df.
[101]: df_11_2020['Date'] = pd.to_datetime(df_11_2020['Date'], dayfirst=True)
       df_11_2020['month_int'] = df_11_2020['Date'].dt.month
       df_11_2020['month'] = df_11_2020['month_int'].apply(lambda x: cal.month_abbr[x])
[102]: # month with the highest unemployment
       df['month'].value_counts().idxmax()
[102]: 'May'
[103]: df_11_2020['month'].value_counts().idxmax()
[103]: 'Mar'
[104]: # Month with the lowest employment
```

```
[104]: # Month with the lowest employment
        df['month'].value counts().idxmin()
[104]: 'Apr'
        df 11 2020['month'].value counts().idxmin()
[105]: 'Jan'
        df.head(3)
[106]:
                    State
                               Date Frequency Estimated Unemployment Rate Estimated Employed Estimated Labour Participation Rate Area month int month
        O Andhra Pradesh 2019-05-31
                                                                        3.65
                                                                                      11999139.0
                                                                                                                             43.24 Rural
                                       Monthly
                                                                                                                                                       May
        1 Andhra Pradesh 2019-06-30
                                       Monthly
                                                                        3.05
                                                                                      11755881.0
                                                                                                                             42.05 Rural
                                                                                                                                                        Jun
        2 Andhra Pradesh 2019-07-31
                                       Monthly
                                                                        3.75
                                                                                      12086707.0
                                                                                                                             43.50 Rural
                                                                                                                                                        Jul
       df 11 2020.head(3)
[107]:
                                              Estimated Unemployment
                                                                              Estimated
                                                                                                    Estimated Labour
                            Date Frequency
                                                                                                                      Region Longitude Latitude month int month
                  State
                                                                                                    Participation Rate
                                                                 Rate
                                                                              Employed
                         2020-01-
                Andhra
                                          Μ
                                                                  5.48
                                                                               16635535
                                                                                                               41.02
                                                                                                                      South
                                                                                                                                15.9129
                                                                                                                                           79.74
                                                                                                                                                                Jan
                Pradesh
                Andhra
                         2020-02-
                                                                  5.83
                                                                               16545652
                                                                                                                                15.9129
                                          Μ
                                                                                                                       South
                                                                                                                                           79.74
                                                                                                                                                                Feb
                Pradesh
                         2020-03-
                Andhra
        2
                                          Μ
                                                                  5.79
                                                                               15881197
                                                                                                               39.18
                                                                                                                      South
                                                                                                                                15.9129
                                                                                                                                           79.74
                                                                                                                                                               Mar
                Pradesh
                              31
[108]: df.drop(columns=['Frequency','month_int'])
[108]:
                                 Date Estimated Unemployment Rate Estimated Employed Estimated Labour Participation Rate Area month
                     State
          0 Andhra Pradesh 2019-05-31
                                                                             11999139.0
                                                               3.65
                                                                                                                    43.24
                                                                                                                           Rural
                                                                                                                                    May
          1 Andhra Pradesh 2019-06-30
                                                               3.05
                                                                             11755881.0
                                                                                                                    42.05
                                                                                                                          Rural
                                                                                                                                    Jun
          2 Andhra Pradesh 2019-07-31
                                                               3.75
                                                                             12086707.0
                                                                                                                    43.50 Rural
                                                                                                                                     Jul
```



1 9/			Settings H	elp						Not Tr	ust
+ %		_ ▶ ■	C → Coo	le v				JupyterLab [	i ë	Python 3 (ipykerne	el)
	0	Andhra Pradesh	2019-05-31	3.65	11999139.0	43.24	Rural	May			
	1	Andhra Pradesh	2019-06-30	3.05	11755881.0	42.05	Rural	Jun			
	2	Andhra Pradesh	2019-07-31	3.75	12086707.0	43.50	Rural	Jul			
	3	Andhra Pradesh	2019-08-31	3.32	12285693.0	43.97	Rural	Aug			
	4	Andhra Pradesh	2019-09-30	5.17	12256762.0	44.68	Rural	Sep			
	749	West Bengal	2020-02-29	7.55	10871168.0	44.09	Urban	Feb			
	750	West Bengal	2020-03-31	6.67	10806105.0	43.34	Urban	Mar			
	751	West Bengal	2020-04-30	15.63	9299466.0	41.20	Urban	Apr			
	752	West Bengal	2020-05-31	15.22	9240903.0	40.67	Urban	May			
	753	West Bengal	2020-06-30	9.86	9088931.0	37.57	Urban	Jun			
[109]	10.4										
[105].	a+_1	1_2020.drop(co	lumns=['Freq	uency','month_int'])							
[109]:	a+_1	1_2020.drop(co			Estimated Employed	Estimated Labour Participation Rate	Region	Longitude	Latitude	month	
			Date		Estimated Employed 16635535	Estimated Labour Participation Rate 41.02	<b>Region</b> South	Longitude 15.9129	<b>Latitude</b> 79.740		
	0	State	<b>Date</b> 2020-01-31	Estimated Unemployment Rate						Jan	
	0	<b>State</b> Andhra Pradesh	<b>Date</b> 2020-01-31 2020-02-29	Estimated Unemployment Rate 5.48	16635535	41.02	South	15.9129	79.740	Jan Feb	
	0 1 2	State Andhra Pradesh Andhra Pradesh	Date 2020-01-31 2020-02-29 2020-03-31	Estimated Unemployment Rate 5.48 5.83	16635535 16545652	41.02 40.90	South	15.9129 15.9129	79.740 79.740	Jan Feb Mar	
	0 1 2 3	State Andhra Pradesh Andhra Pradesh Andhra Pradesh	Date 2020-01-31 2020-02-29 2020-03-31 2020-04-30	Estimated Unemployment Rate 5.48 5.83 5.79	16635535 16545652 15881197	41.02 40.90 39.18	South South South	15.9129 15.9129 15.9129	79.740 79.740 79.740	Jan Feb Mar Apr	
	0 1 2 3	State Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh	Date  2020-01-31  2020-02-29  2020-03-31  2020-04-30  2020-05-31	5.48         5.83         5.79         20.51	16635535 16545652 15881197 11336911	41.02 40.90 39.18 33.10	South South South South South	15.9129 15.9129 15.9129 15.9129 15.9129	79.740 79.740 79.740 79.740	Jan Feb Mar Apr	
	0 1 2 3 4	State Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh	Date  2020-01-31  2020-02-29  2020-03-31  2020-04-30  2020-05-31	5.48         5.83         5.79         20.51	16635535 16545652 15881197 11336911	41.02 40.90 39.18 33.10 36.46	South South South South South	15.9129 15.9129 15.9129 15.9129 15.9129	79.740 79.740 79.740 79.740	Jan Feb Mar Apr May	
	0 1 2 3 4	State Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh West Bengal	Date  2020-01-31  2020-02-29  2020-03-31  2020-04-30  2020-05-31	5.48 5.83 5.79 20.51 17.43	16635535 16545652 15881197 11336911 12988845	41.02 40.90 39.18 33.10 36.46	South South South South South South	15.9129 15.9129 15.9129 15.9129 15.9129  22.9868	79.740 79.740 79.740 79.740 79.740	Jan Feb Mar Apr May Jun	
	0 1 2 3 4 	State Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh West Bengal	Date  2020-01-31  2020-02-29  2020-03-31  2020-04-30  2020-05-31   2020-06-30  2020-07-31	Estimated Unemployment Rate 5.48 5.83 5.79 20.51 17.43 7.29	16635535 16545652 15881197 11336911 12988845 	41.02 40.90 39.18 33.10 36.46  40.39	South South South South South East	15.9129 15.9129 15.9129 15.9129 15.9129  22.9868	79.740 79.740 79.740 79.740 79.740  87.855	Jan Feb Mar Apr May Jun	

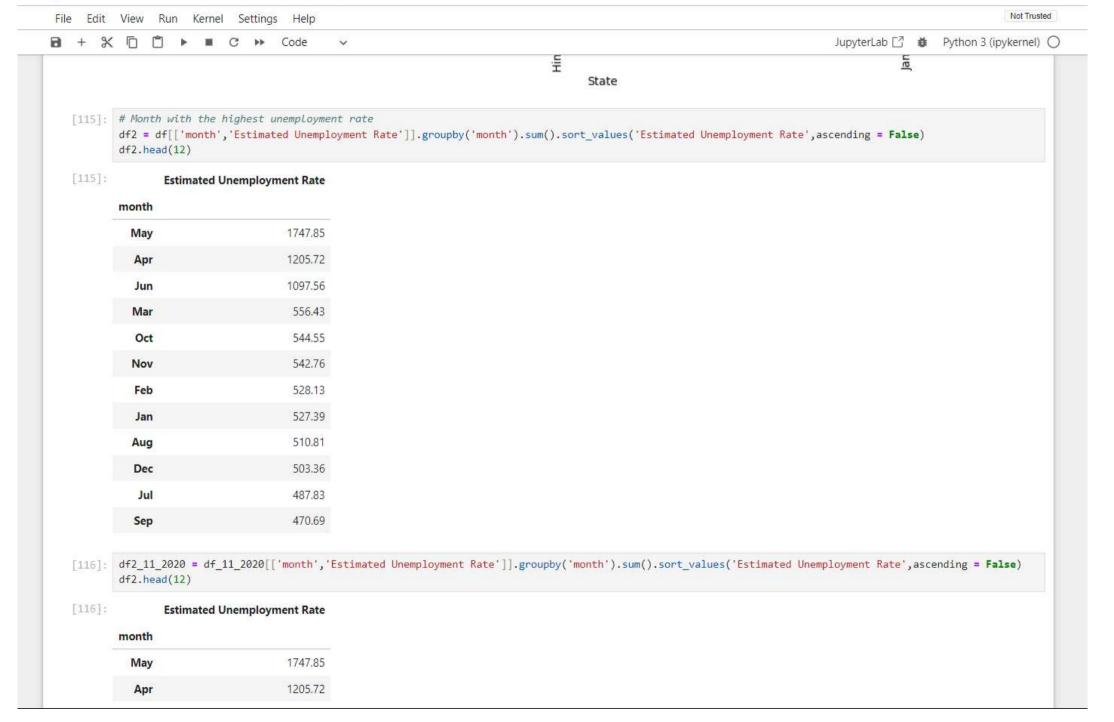


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[110]:	<pre># Top 10 states with the H df1 = df[['State','Estimat</pre>		oupby('State').sum().sort_values('Estimated Unemployment Rate' , ascending <b>=Fal</b> :	ie)
[111]:	df1_11_2020 = df_11_2020[[	'State','Estimated Unempl	yment Rate']].groupby('State').sum().sort_values('Estimated Unemployment Rate'	, ascending=False)
[112]:	df1.head(10)			
[112]:	Estimated	Unemployment Rate		
	State			
	Tripura	793.81		
	Haryana	735.93		
	Jharkhand	576.38		
	Bihar	529.71		
	Himachal Pradesh	519.13		
	Delhi	461.87		
	Rajasthan	393.63		
	Uttar Pradesh	351.44		
	Jammu & Kashmir	339.96		
	Punjab	336.87		
[113]:	df1_11_2020.head(10)			
[113]:	Estimated	Unemployment Rate		
	State			
	Haryana	274.77		
	Tripura	250.55		
	Jharkhand	195.39		
	Bihar	194.71		
	Dallei	10414		



Not Trusted Edit View Run Kernel Settings Help Code JupyterLab ☐ # Python 3 (ipykernel) ○ Jammu & Kashmir 148.30 Tamil Nadu 121.87 [114]: # Visualisation of this top 10 highest unemployment fig = plt.figure() axb = fig.add subplot(1,2,1) df1[:10].plot(kind='bar', color = 'blue', figsize=(30,5), ax=axb) axb.set title('Top 10 Highest Unemployment Rate') axb.set\_xlabel('State') axb.set\_ylabel('Number of people unemployement %') [114]: Text(0, 0.5, 'Number of people unemployement %') Top 10 Highest Unemployment Rate 800 Estimated Unemployment Rate 700 Number of people unemployement % 600 500 300 200 100 0 Tripura Haryana harkhand Bihar hal Pradesh tar Pradesh & Kashmir Rajasthan

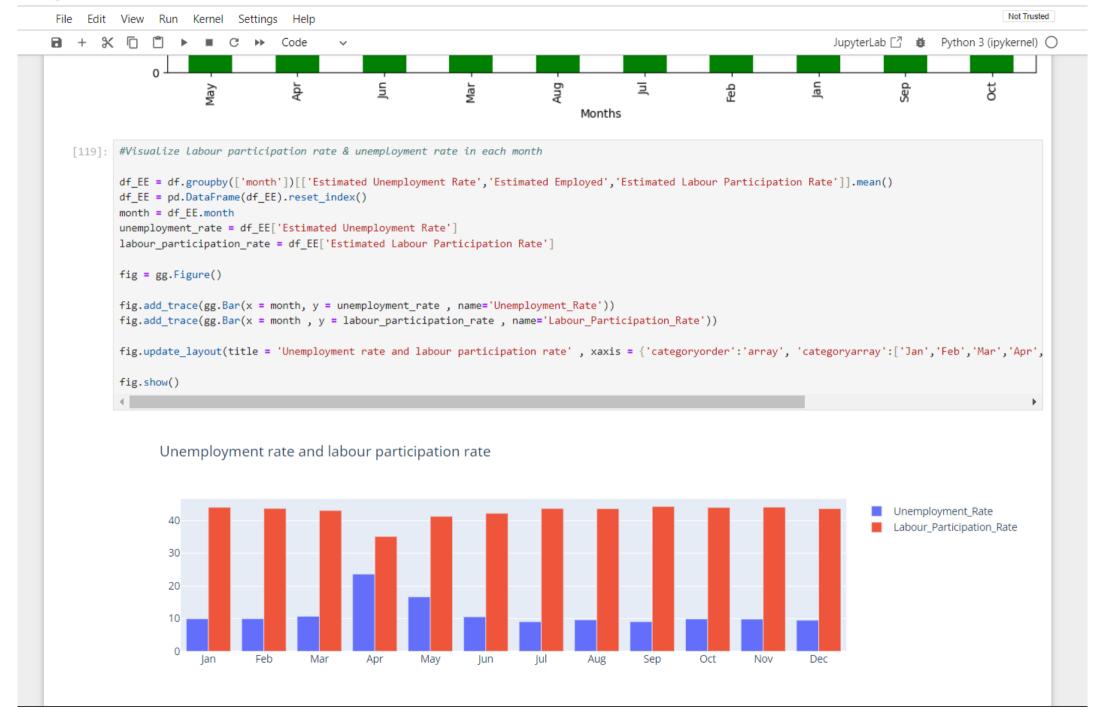














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JupyterLab □ ★ Python 3 (ipykernel) ○

```
df_EE_11_2020 = df_11_2020.groupby(['month'])[['Estimated Unemployment Rate','Estimated Employed','Estimated Labour Participation Rate']].mean()
    df_EE_11_2020 = pd.DataFrame(df_EE_11_2020).reset_index()
    month = df_EE_11_2020.month
    unemployment_rate = df_EE_11_2020['Estimated Unemployment Rate']
    labour_participation_rate = df_EE_11_2020['Estimated Labour Participation Rate']

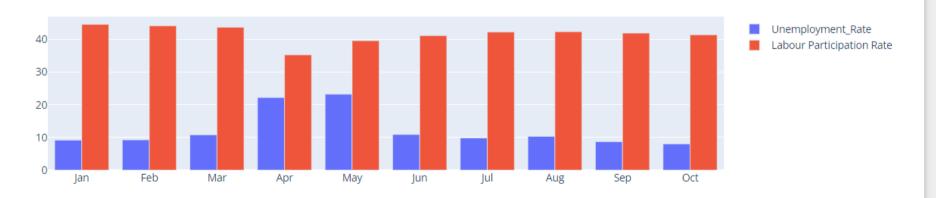
fig = gg.Figure()

fig.add_trace(gg.Bar(x = month, y = unemployment_rate , name='Unemployment_Rate'))
fig.add_trace(gg.Bar(x = month , y = labour_participation_rate , name='Labour Participation Rate'))

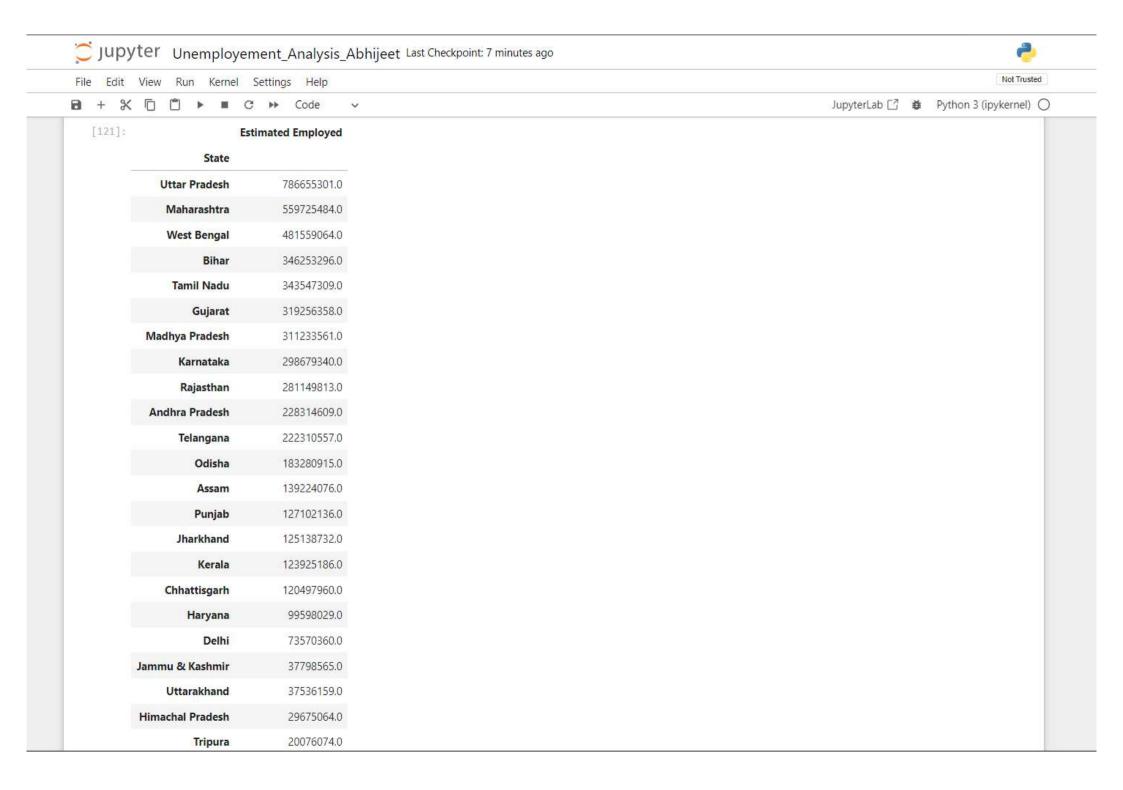
fig.update_layout(title = 'Unemployment rate and labour participation rate for upto 11/2020' , xaxis = {'categoryorder':'array', 'categoryarray':['Jan','
fig.show()

4
```

## Unemployment rate and labour participation rate for upto 11/2020



[121]: # state wise estimated employed





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Edit View Run Kernel Settings Help Not Trusted JupyterLab ☐ # Python 3 (ipykernel) ○ [123]: # Estimated unemployment rate State wise # Estimated Unemployment rate (%) = (Number of Unemployed / Labour force ) \* 100 df3\_a = df[['State', 'Estimated Unemployment Rate']].groupby('State').sum().sort\_values('Estimated Unemployment Rate', ascending=False) df3\_a [123]: **Estimated Unemployment Rate** State 793.81 Tripura Haryana 735.93 Jharkhand 576.38 Bihar 529.71 **Himachal Pradesh** 519.13 Delhi 461.87 Rajasthan 393.63 **Uttar Pradesh** 351.44 Jammu & Kashmir 339.96 Punjab 336.87 283.47 Kerala **Puducherry** 265.59 Tamil Nadu 259.96 258.73 Chhattisgarh West Bengal 227.49 Goa 222.58 Telangana 216.66 Maharashtra 211.61 **Andhra Pradesh** 209.36

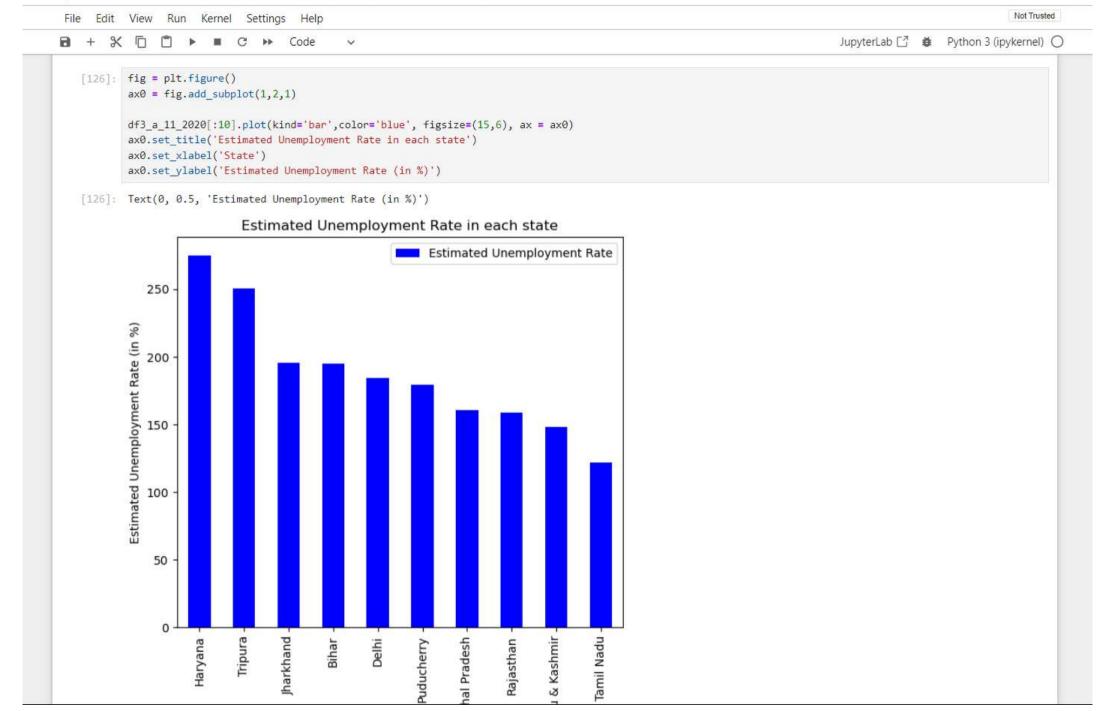


Edit View Run Kernel Settings Help Not Trusted JupyterLab ☐ # Python 3 (ipykernel) ○ Sikkim 123.24 [124]: # Estimated unemployment rate state wise visualization fig = plt.figure() ax1 = fig.add subplot(1,2,2) df3\_a[:10].plot(kind='bar',color='green', figsize=(15,6), ax = ax1) ax1.set title('Estimated Unemployment Rate in each state') ax1.set\_xlabel('State') ax1.set\_ylabel('Estimated Unemployment Rate (in %)') [124]: Text(0, 0.5, 'Estimated Unemployment Rate (in %)') Estimated Unemployment Rate in each state Estimated Unemployment Rate 800 700 Estimated Unemployment Rate (in %) 600 500 300 200 100



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+ %		Code v		Python 3 (ipykernel)
		宝 State	<u> </u>	
	df3_a_11_2020 = df_11_2020 df3_a_11_2020	['State', 'Estimated Unemployment Ra	te']].groupby('State').sum().sort_values('Estimated Unemployment Rate',	ascending <b>=False</b> )
[125]:	Estimated	Jnemployment Rate		
	State	29		
	Haryana	274.77		
	Tripura	250.55		
	Jharkhand	195.39		
	Bihar	194.71		
	Delhi	184.14		
	Puducherry	179.42		
	Himachal Pradesh	160.65		
	Rajasthan	158.68		
	Jammu & Kashmir	148.30		
	Tamil Nadu	121.87		
	Goa	121.67		
	Punjab	119.81		
	Uttarakhand	111.56		
	West Bengal	101.92		
	Uttar Pradesh	97.37		
	Kerala	94.34		
	Andhra Pradesh	86.64		
	Maharashtra	79.79		
	Sikkim	78.34		







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[127]:	df3_11_2 df3_11_2		_11_20	020[[ˈ	'State',	'Estimated Employed']].groupby('State').sum().sort_values('Estimated Employed', ascending=False	)	
[127]:			Estin	nated	Employed			
		State						
	Uttai	Pradesh		5	555247990			
	Mal	narashtra		3	392047582			
	We	st Bengal		3	333051643			
		Bihar		2	236068280			
		Gujarat		2	227307461			
	Madhya	Pradesh		2	223183353			
	Та	mil Nadu		2	219878981			
	K	arnataka		2	216240176			
	F	Rajasthan		•	197317522			
	Т	elangana		,	162440825			
	Andhra	Pradesh		,	154254800			
		Odisha		•	127268329			
		Assam		1	108102755			
		Punjab			87830342			
	JI	narkhand			87706424			
		Kerala			85967949			
	Chh	attisgarh			84213492			
		Haryana			68440590			
		Delhi			46328219			
	Jammu &	Kashmir			29790285			
	Utta	arakhand			27432749			



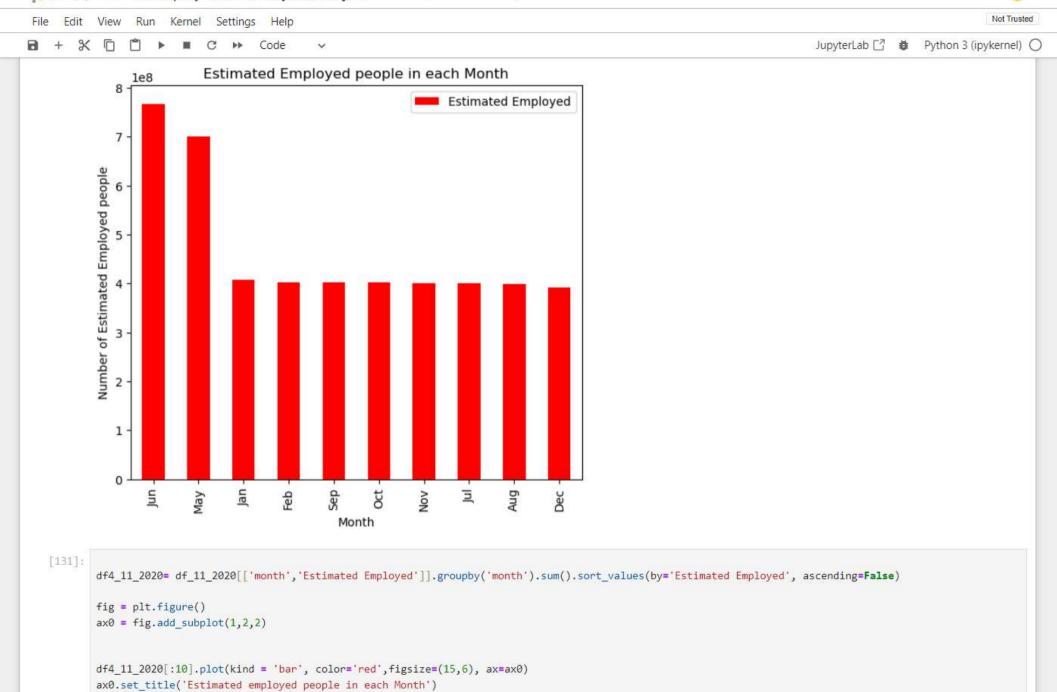
Not Trusted File Edit View Run Kernel Settings Help JupyterLab ☐ # Python 3 (ipykernel) ○ [128]: fig = plt.figure() ax1 = fig.add subplot(1,2,1) # second subplot (ax1) will be positioned in the second coloumn#Employed df3\_11\_2020[:10].plot(kind = 'bar', color='blue', figsize=(15,6), ax = ax1) ax1.set\_title('Estimated Employed people in each state') ax1.set xlabel('State') ax1.set ylabel('number of Estimated Employed') [128]: Text(0, 0.5, 'number of Estimated Employed') Estimated Employed people in each state Estimated Employed 5 number of Estimated Employed 1 adesh ujarat Nadu shtra engal ataka sthan



Not Trusted File Edit View Run Kernel Settings Help **1** + % □ □ **1** • C → Code JupyterLab ☐ # Python 3 (ipykernel) ○ State [129]: # Month Wise Estimated Employed df4 = df[['month', 'Estimated Employed']].groupby('month').sum().sort\_values(by='Estimated Employed', ascending=False) df4.head(10)[129]: **Estimated Employed** month Jun 766717078.0 May 699995530.0 406899254.0 Jan Feb 403011803.0 402452126.0 Sep 401411032.0 Oct 400051335.0 Nov Jul 399838967.0 399610205.0 Aug 391001555.0 Dec [130]: # Month wise Estimated Employed fig = plt.figure() ax1 = fig.add subplot(1,2,2) # Second subplot (ax1) will be positioned in the second coloumn #Employed df4[:10].plot(kind = 'bar', color='red',figsize=(15,6), ax=ax1) ax1.set\_title('Estimated Employed people in each Month') ax1.set\_xlabel('Month') ax1.set\_ylabel('Number of Estimated Employed people') [130]: Text(0, 0.5, 'Number of Estimated Employed people')

ax0.set xlabel('Month')







Not Trusted Edit View Run Kernel Settings Help JupyterLab ☐ # Python 3 (ipykernel) ○ df4\_11\_2020[:10].plot(kind = 'bar', color='red', figsize=(15,6), ax=ax0) ax0.set title('Estimated employed people in each Month') ax0.set xlabel('Month') ax0.set\_ylabel('Number of Estimated Employed people') [131]: Text(0, 0.5, 'Number of Estimated Employed people') Estimated employed people in each Month 1e8 Estimated Employed 4.0 3.5 0.5 0.0 oct Aug <u>un</u> Jan Feb Mar Month [132]: # Barplot Unemployemnet Rate (Monthly) fig = exp.bar(data\_frame=df,x='State',y='Estimated Unemployment Rate', animation\_frame='month',color='State',title='Unemployment Rate of each month')



