



# **UNEMPLOYMENT IN INDIA**

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# Introduction:

This project focuses on analyzing unemployment in India during the COVID-19 pandemic, using data from 2019 to 2020 to examine its effects on employment in both urban and rural areas. We will analyze the unemployment rate, labor participation, and estimated employment figures. Various functions and tools will be employed to gain insights and recommend actionable strategies for recovery from the pandemic.



# TOOLS:



## Excel :

check if there is any :  
errors values  
duplicate values  
cleaning data

## SQL :

steps :  
imports data  
use select statement to over view the data  
use string functions to get the year (2019,2020)  
use aggregate functions  
use top-limit

## Power Bi :

To visualize the results obtained from the data, we can begin brainstorming solutions to address this problem.

# SQL:

```
select *from [unemployment ]
```

	Region	date1	Frequency	Unemployment _Rate	Estimated Employed	Estimated Labour Participation Rate (%)	Area
1	Andhra Pradesh	31-05-2019	Monthly	3.65	11999139	43.24	Rural
2	Andhra Pradesh	30-06-2019	Monthly	3.05	11755881	42.05	Rural
3	Andhra Pradesh	31-07-2019	Monthly	3.75	12086707	43.5	Rural
4	Andhra Pradesh	31-08-2019	Monthly	3.32	12285693	43.97	Rural
5	Andhra Pradesh	30-09-2019	Monthly	5.17	12256762	44.68	Rural
6	Andhra Pradesh	31-10-2019	Monthly	3.52	12017412	43.01	Rural
7	Andhra Pradesh	30-11-2019	Monthly	4.12	11397681	41	Rural
8	Andhra Pradesh	31-12-2019	Monthly	4.38	12528395	45.14	Rural
9	Andhra Pradesh	31-01-2020	Monthly	4.84	12016676	43.46	Rural
10	Andhra Pradesh	29-02-2020	Monthly	5.91	11723617	42.83	Rural
11	Andhra Pradesh	31-03-2020	Monthly	4.06	11359660	40.66	Rural
12	Andhra Pradesh	30-04-2020	Monthly	16.29	8792827	36.03	Rural
13	Andhra Pradesh	31-05-2020	Monthly	14.46	9526902	38.16	Rural
14	Andhra Pradesh	30-06-2020	Monthly	0.85	15572975	53.76	Rural
15	Assam	31-05-2019	Monthly	4.20	11749224	57.20	Rural

```
select right (date1,4) as Year_india  
from [unemployment ]
```

```
select sum ( [ Estimated Employed])  
from [unemployment ]  
where right(date1,4) ='2019'
```

```
select sum ( [ Estimated Employed])  
from [unemployment ]  
where right(date1,4) ='2020'
```

```
select top 5
    sum([ Estimated Employed]) as total ,Region
from [unemployment ]
where right(date1,4) = '2019'
group by Region
order by total desc |
```

Results    Messages

	total	Region
1	456399499	Uttar Pradesh
2	336263333	Maharashtra
3	287259853	West Bengal
4	223132761	Tamil Nadu
5	211805639	Bihar

```
select
    sum(([ Estimated Employed]/[ Estimated Labour Participation Rate (%)])*
        ([ Unemployment _Rate]/100))
    as Estimated_unemployment
    from [unemployment ]
```

Results    Messages

	Estimated_unemployment
1	11968367.2381243

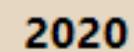
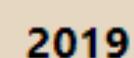
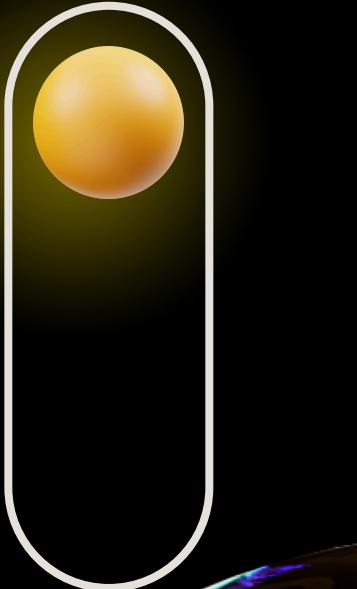
## SQL:

```
select TOP 5
sum(([ Estimated Employed]/[ Estimated Labour Participation Rate (%)])*
([ Unemployment _Rate]/100))
as Estimated_unemployent ,Region
from [unemployment ]
where right(date1,4) = '2019'
group by Region
order by Estimated_unemployent desc
```

Results    Messages

	Estimated_unemployent	Region
1	1155200.32405836	Uttar Pradesh
2	636462.035346925	Bihar
3	454916.128036402	Rajasthan
4	406123.435561513	Maharashtra
5	383287.717081143	West Bengal

# POWER BI:



11.97M

### Total of Estimated Unemployed

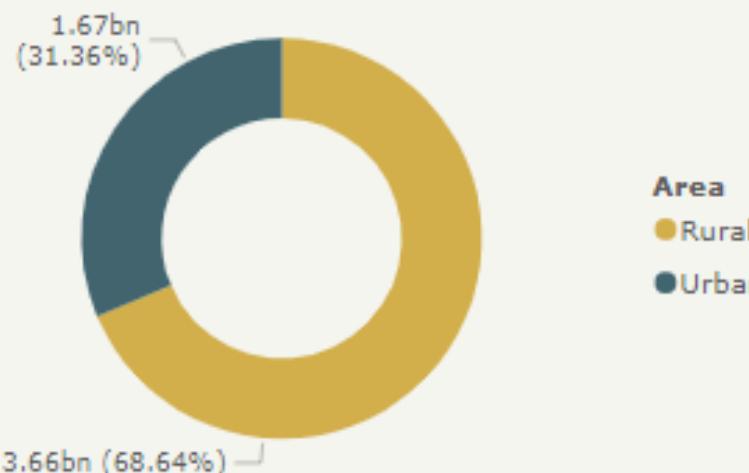
5,331M

Total of Estimated Employed

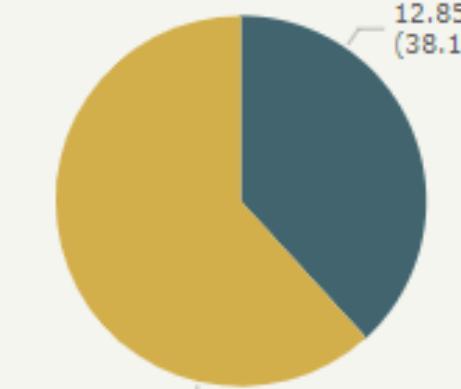
31.55K

### Total Of Estimated Labor Participation

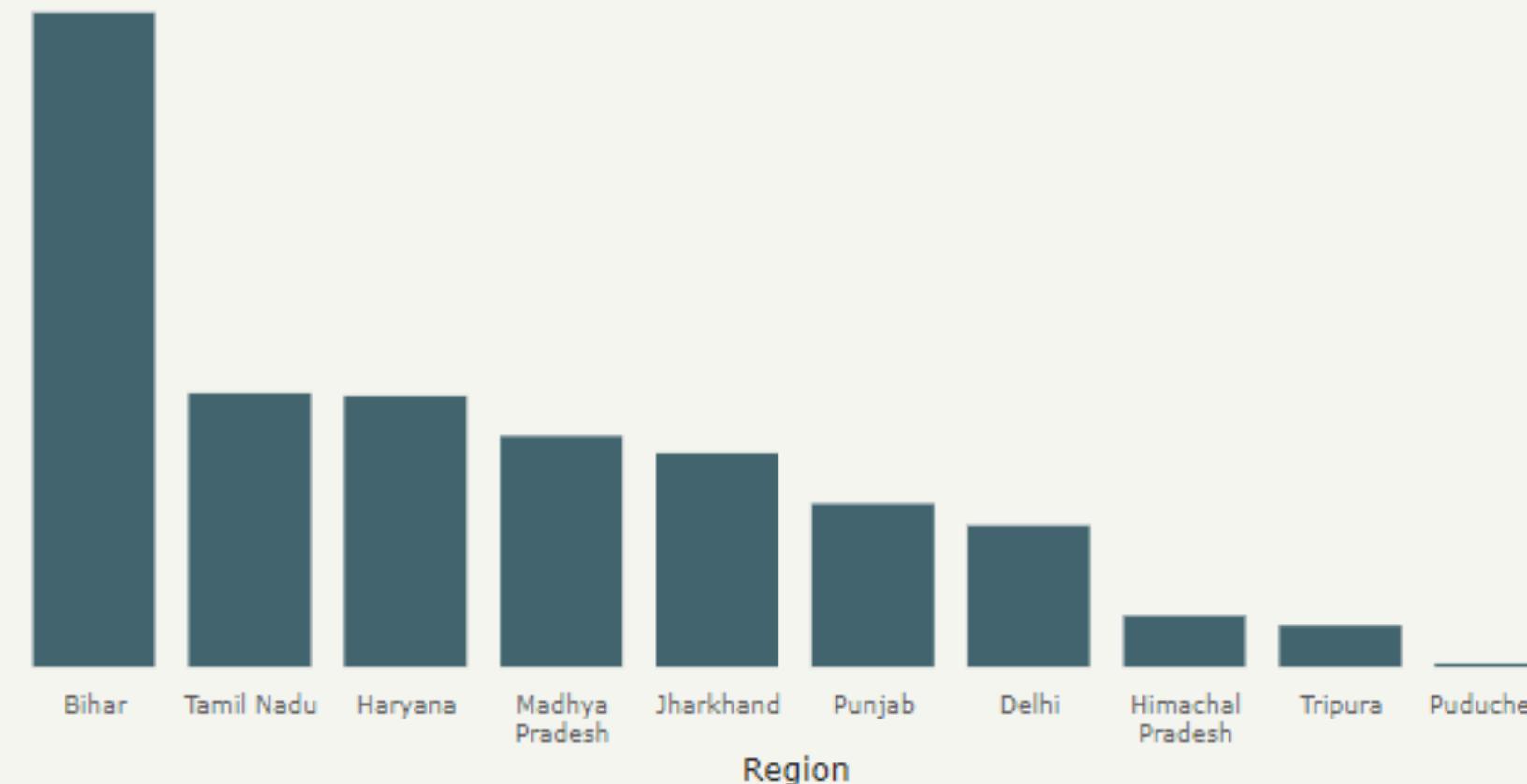
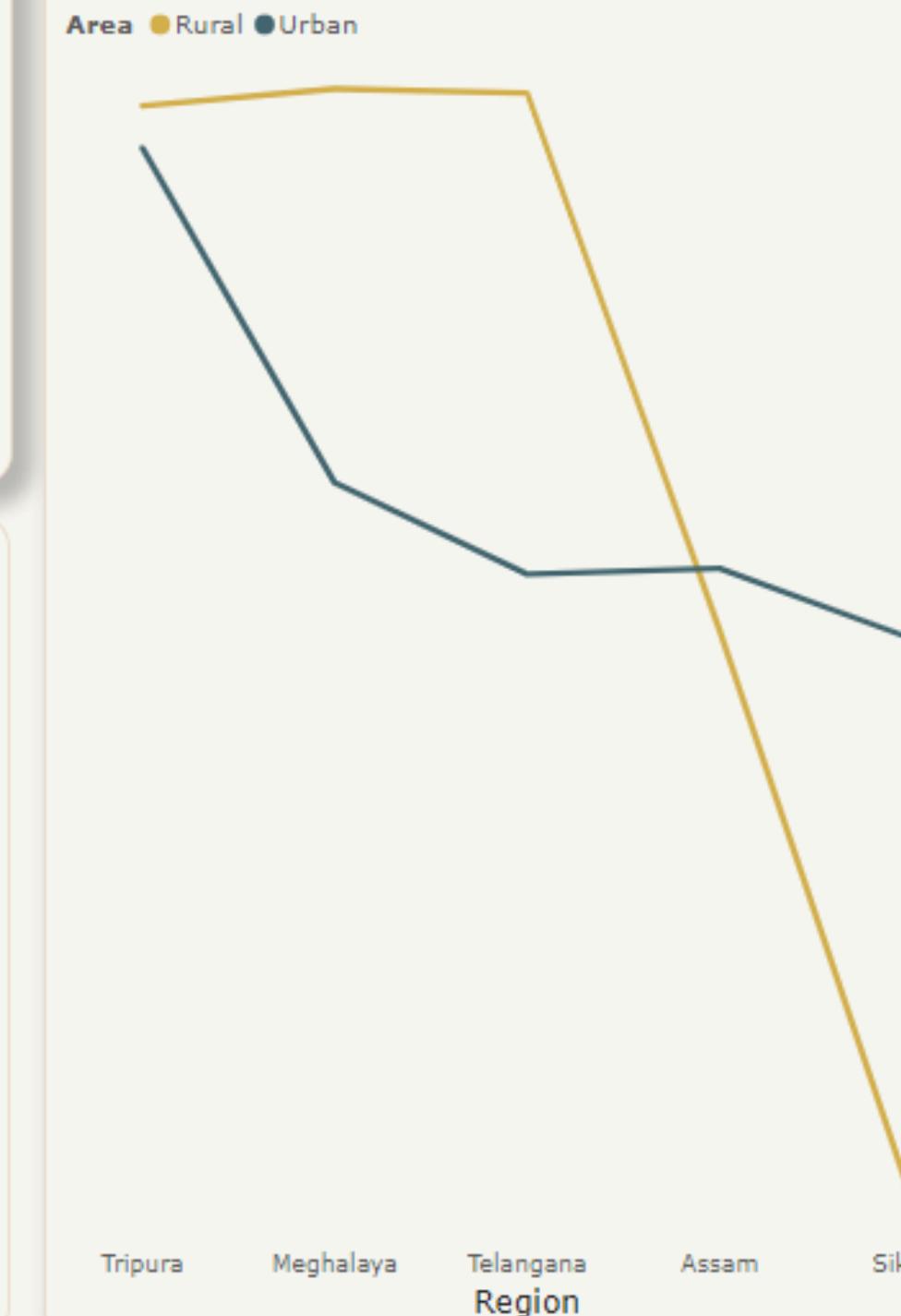
### Sum of Estimated Employed by Area



## Average of Estimated Unemployed by Year



## Sum of Estimated Labour Participation Rate (%) by Region and Area



# THE INSIGHTS

- 1 Total of Estimated Employed  
5,331M
- 2 Total of Estimated Unemployment  
11.97M
- 3 Total of Estimated Labor participation  
31.55 K
- 4 The SUM of the estimated employed before the pandemic we that is the Area Rural is highest 68.8% then Urban 31.3%

- 5 Unemployment jumped from 38% in 2019 to 62% in 2020 due to the COVID-19 pandemic's economic impact.
- 6 The Top 5 of regions that's affected by pandemic
- 7 The highest of estimated labor participation by Area Rural Then Urban & Then by Regions Tripura & Meghalaya

# RECOMMENDATIONS

Train the Employee for the Unexpected scenario

Hybrid work utilizing digital tools.

Begin exploring opportunities to hire  
freelancers and remote workers.





CognoRise InfoTech

# THANK YOU

