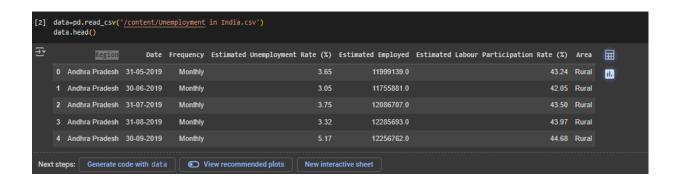
## Project on Unemployment analysis using python

- Aim:-To create a Data science Project, where we will be predicting Unemployment is measured by the unemployment rate which is the number of people who are unemployed as a percentage of the total labour force. We have seen a sharp increase in the unemployment rate during Covid-19.
- > Steps to be taken in the project is sub-divided into the following sections. These are:
  - Importing the libraries such as 'numpy', 'pandas etc.
  - ❖ Loading Dataset as a CSV file for training & testing the models.
  - Checking if still any null values or any other data types other than float and integers are present into the dataset or not.
- Steps of creating unemployment analysis s:-
- Importing numpy as np & pandas as pd for loading and reading the data-set & using matplotlib.pyplot and Seaborn for visualization of data.



❖ Loading the csv-dataset in the variable name 'data Then viewing the data with data.head



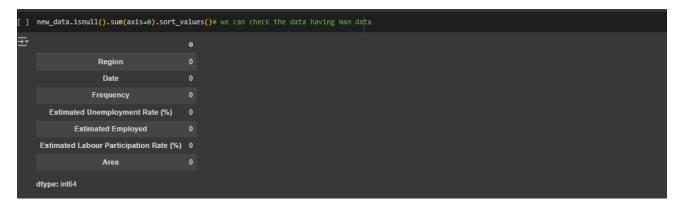
Checking the data such as number of columns, rows and type of data(float,integer) with help of data\_train.info()

We observe that the above data have integer, object and float.

```
[ ] data.shape
→ (768, 7)
```

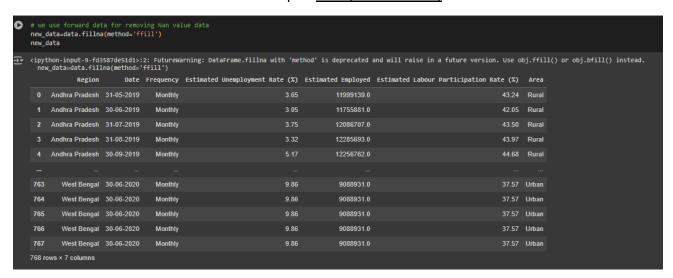
Train data have 768 Rows and 7 columns

Now checking data have Nan value or not.



We observe that the above data have Nan value..we cleaning the Nan value before working on it.

We remove the Nan value with help of <u>fillna(method='ffill)</u>

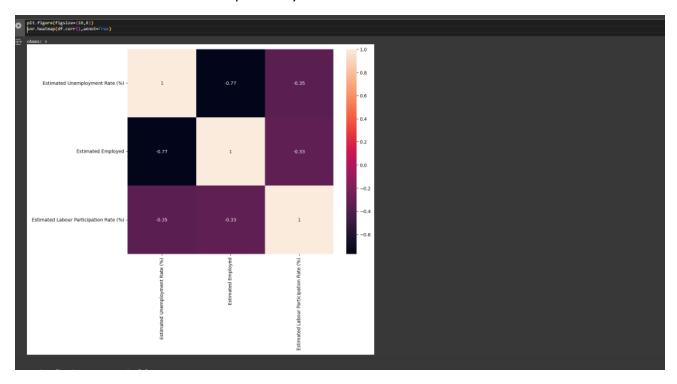


Now ,Main focus convert the categorical data into Numerical data with help of one hot encoding method.



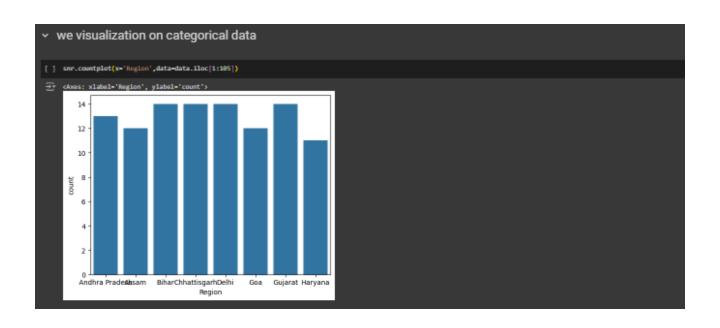
## Finally we observe the data are fully cleaned.

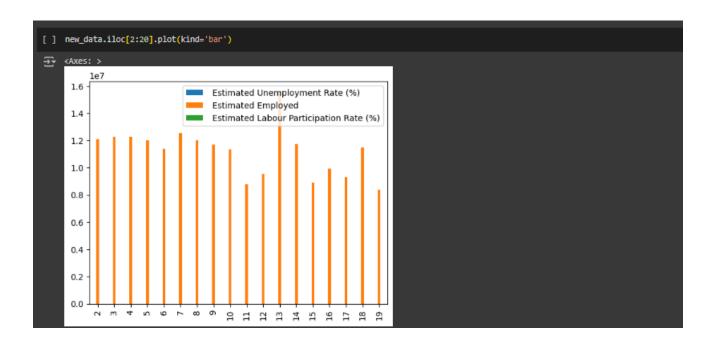
Now we check the data dependency.



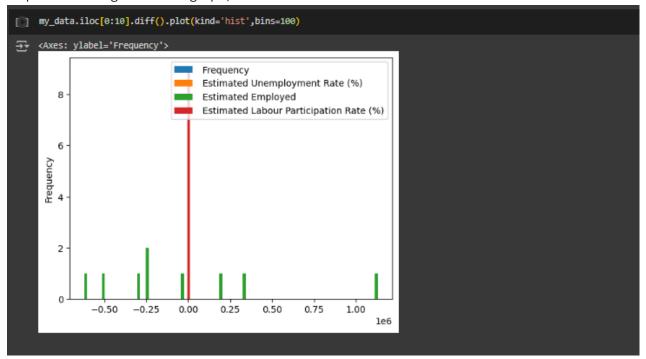
We see that data dependent each other.

Visualizing the Unemployment .





As per Visualizing the above graph,



So this is how you can analyze the unemployment rate by using the Python programming language. Unemployment is measured by the unemployment rate which is the number of people who are unemployed as a percentage of the total labour force.

Thank you