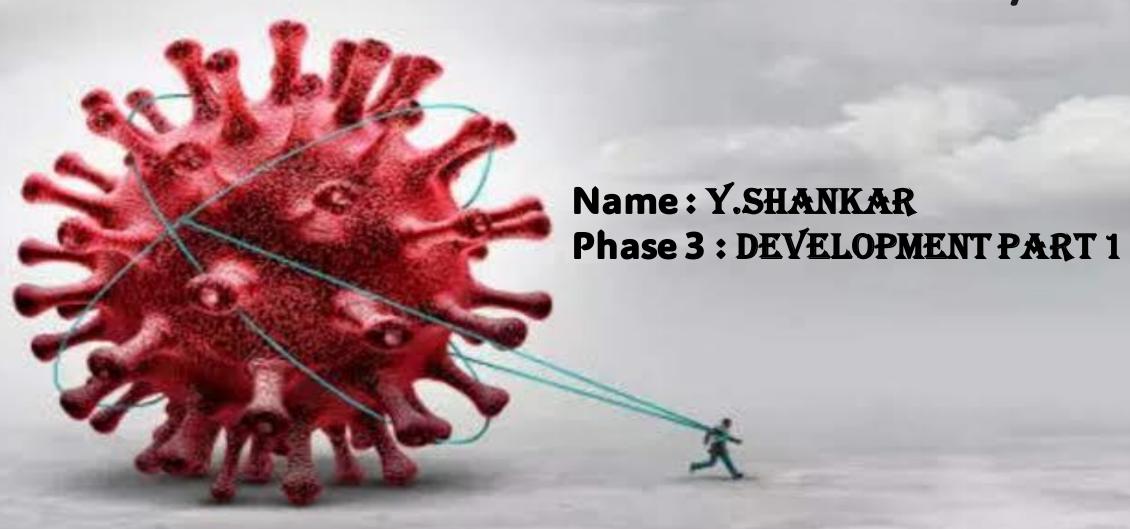
COVID-19 case analysis



COVID-19 case analysis

INTRODUCTION:

Covid can be very contagious and spreads quickly. Over one million people have died from COVID-19 in the United States. COVID-19 most often causes respiratory symptoms that can feel much like a cold, the flu, or pneumonia. COVID-19 may attack more than your lungs and respiratory system.

Given Dataset:

Out[5]:		dateRep	day	month	year	cases	deaths	countriesAndTerritories
	0	31-05-2021	31	5	2021	366	5	Austria
	1	30-05-2021	30	5	2021	570	6	Austria
	2	29-05-2021	29	5	2021	538	11	Austria
	3	28-05-2021	28	5	2021	639	4	Austria
	4	27-05-2021	27	5	2021	405	19	Austria
	***	444	114		-	240	***	***
	2725	06-03-2021	6	3	2021	3455	17	Sweden
	2726	05-03-2021	5	3	2021	4069	12	Sweden
	2727	04-03-2021	4	3	2021	4884	14	Sweden
	2728	03-03-2021	3	3	2021	4876	19	Sweden
	2729	02-03-2021	2	3	2021	6191	19	Sweden

Steps to follow:

Import libraries

Start by importing necessary libraries

```
import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
```

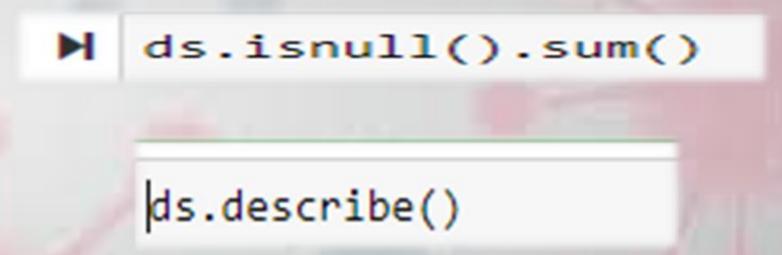
Load the dataset:

Load your dataset into Pandas data frame. You can tupically find covid-19 case analysis datasets in CSV format, but you can adapt this code to other formats as needed.

```
In [5]: ds=pd.read_csv("D:\\New folder (2)\\covid_19_cases4.csv")
    ds
```

Exploratory Data Analysis

This include checking for missing value, exploring the data's statics, and visualizing it to identify patterns.



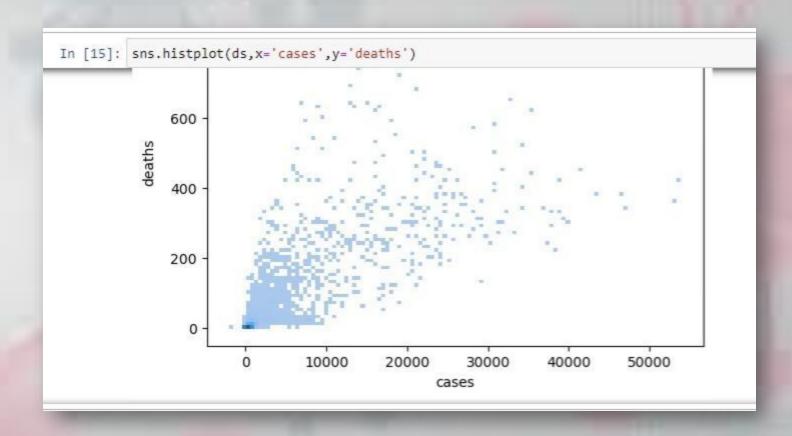
Handling of missing values

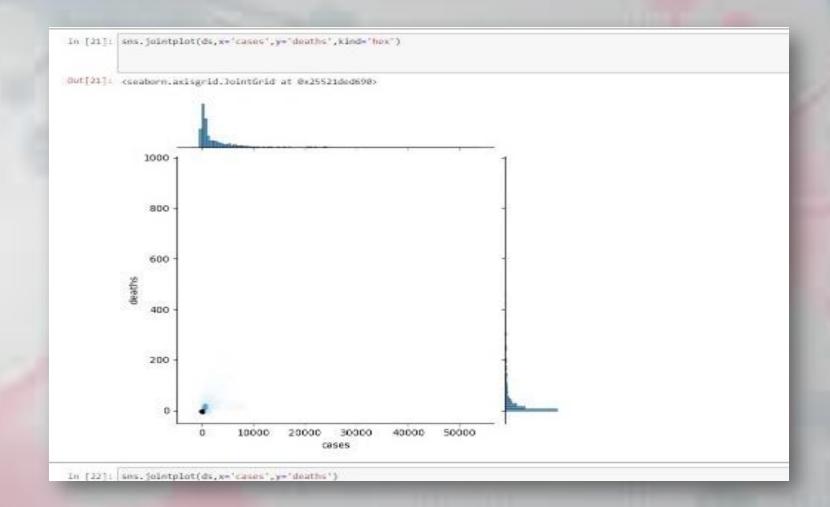
Handling missing values is the deletion of the rows or columns having null values. If any columns have more than half of the values as null then you can drop the entire column. Rows can also be dropped if having one or more columns values as null.

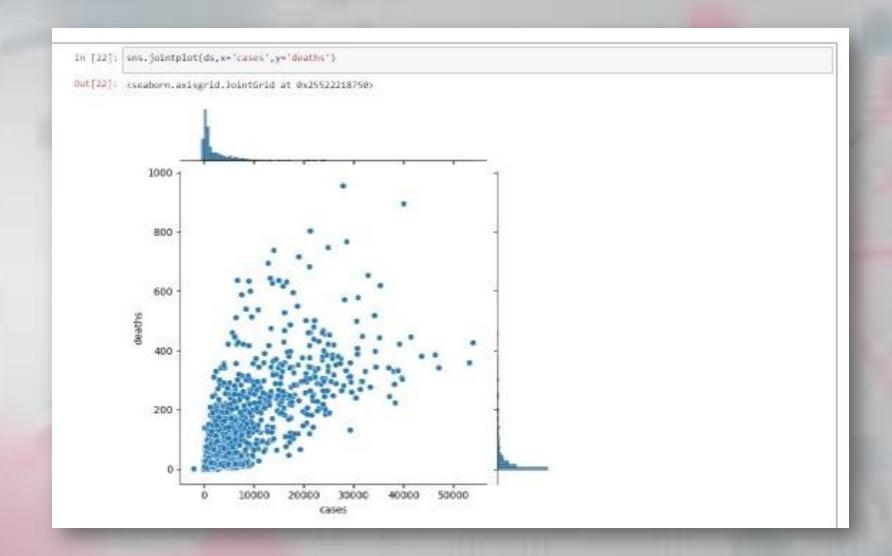
ds.isnull().sum()

dateRep 0
day 0
month 0
year 0
cases 0
deaths 0
countriesAndTerritories 0
dtype: int64

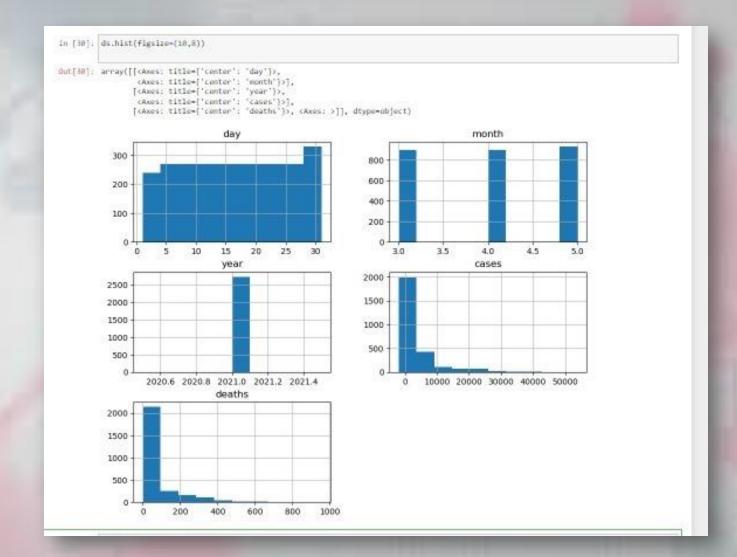
Visualization & preprocessing of data







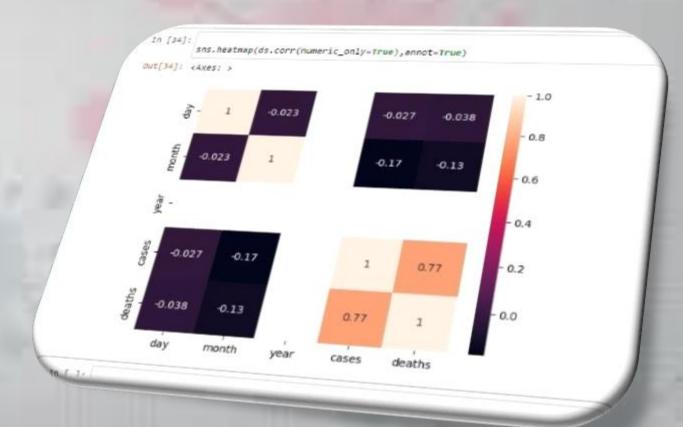




In [31]: ds.corr(numeric_only=True)

Out[31]:

	day	month	year	cases	deaths
day	1.000000	-0.022973	NaN	-0.026988	-0.038128
month	-0.022973	1.000000	NaN	-0.172412	-0.126515
year	NaN	NaN	NaN	NaN	NaN
cases	-0.026988	-0.172412	NaN	1.000000	0.766309
deaths	-0.038128	-0.126515	NaN	0.766309	1.000000



Conclusion

The COVID-19 pandemic has had a significant impact on the world. It has highlighted the importance of preparedness, collaboration, and innovation. While the future outlook is uncertain, we have learned many lessons that will help us better prepare for future pandemics.