

covid 19 cases analysis

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- 1. World Health Organization (WHO):**
WHO provides global COVID-19 data, including cases, deaths, and vaccination statistics.
- 2. Johns Hopkins University:** They offer a COVID-19 dashboard that provides real-time data on cases, deaths, recoveries, and testing.

Centers for Disease Control and Prevention (CDC): The CDC offers data for the United States, including state-specific information.

COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University: This repository provides downloadable data for global, national, and regional analysis.

European Centre for Disease Prevention and Control (ECDC): Good source for COVID-19 data in Europe.

Our World in Data: They compile and provide COVID-19 data along with various visualizations and analysis tools.

df.info()



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```
import pandas as pd
import numpy as np
import seaborn as sns
import plotly.express as px
import matplotlib.pyplot as plt

#sklearn
from sklearn.preprocessing import StandardScaler
from sklearn.model_selection import train_test_split

from sklearn.metrics import accuracy_score, classification_report, confusion_matrix
```

```
[8] df=pd.read_csv("~/content/Covid_19_cases4 (1).csv")
df
```

	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
...

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	dateRep	day	month	year	cases	deaths	countriesAndTerritories
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3	28-05-2021	28	5	2021	639	4	Austria
4	27-05-2021	27	5	2021	405	19	Austria
...
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

2730 rows × 7 columns



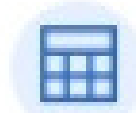
x}

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```
[9] df.describe()
```

	day	month	year	cases	deaths
count	2730.000000	2730.000000	2730.0	2730.000000	2730.000000
mean	16.000000	4.010989	2021.0	3661.010989	65.291941
std	8.765919	0.818813	0.0	6490.510073	113.956634
min	1.000000	3.000000	2021.0	-2001.000000	-3.000000
25%	8.000000	3.000000	2021.0	361.250000	2.000000
50%	16.000000	4.000000	2021.0	926.500000	14.500000
75%	24.000000	5.000000	2021.0	3916.250000	72.000000
max	31.000000	5.000000	2021.0	53843.000000	956.000000



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`df.info()`



```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 2730 entries, 0 to 2729  
Data columns (total 7 columns):  
#   Column                                Non-Null Count  Dtype  
---  -  
0   dateRep                               2730 non-null   object  
1   day                                   2730 non-null   int64  
2   month                                2730 non-null   int64  
3   year                                  2730 non-null   int64  
4   cases                                2730 non-null   int64  
5   deaths                               2730 non-null   int64  
6   countriesAndTerritories              2730 non-null   object  
dtypes: int64(5), object(2)  
memory usage: 149.4+ KB
```

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[18] `df.isnull().sum()`

```
dateRep      0  
day           0  
month        0  
year         0  
cases        0  
deaths       0
```

