

# PROJECT NAME-CAUSE OF DEATH

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Death is inevitable. Sometime it occurs unexpectedly, other times, it stares us in the face. While many factors can cause death if not well managed, others are natural causes that one may have no or little control of.

In this analysis, I looked at records of these causes of death in 204 countries , what causes the most death in a some countries and the likely reason the country suffer from it.

## Exploratory Data Analysis

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On The

Cause of Deaths

# First import all the necessary libraries

```
#import Liabraries:  
import numpy as np  
import pandas as pd  
import matplotlib.pyplot as plt  
import seaborn as sns  
  
import warnings  
warnings.filterwarnings('ignore')  
  
# shows plots in jupyter notebook  
%matplotlib inline  
  
#set plot style  
sns.set(color_codes=True)
```

# LOAD THE DATA

Load Data

```
df = pd.read_csv("cause_of_death")
df.head(10)
```

	Country/Territory	Code	Year	Meningitis	Alzheimer's Disease and Other Dementias	Parkinson's Disease	Nutritional Deficiencies	Malaria	Drowning	Interpersonal Violence	...	Diabetes Mellitus	Chronic Kidney Disease	Poisonings	Pr E Malnu
0	Afghanistan	AFG	1990	2159	1116	371	2087	93	1370	1538	...	2108	3709	338	
1	Afghanistan	AFG	1991	2218	1136	374	2153	189	1391	2001	...	2120	3724	351	
2	Afghanistan	AFG	1992	2475	1162	378	2441	239	1514	2299	...	2153	3776	386	
3	Afghanistan	AFG	1993	2812	1187	384	2837	108	1687	2589	...	2195	3862	425	
4	Afghanistan	AFG	1994	3027	1211	391	3081	211	1809	2849	...	2231	3932	451	
5	Afghanistan	AFG	1995	3102	1225	394	3131	175	1881	2969	...	2248	3974	467	
6	Afghanistan	AFG	1996	3193	1239	398	3175	175	1969	3331	...	2298	4041	485	
7	Afghanistan	AFG	1997	3304	1253	402	3250	240	2078	3028	...	2347	4094	504	
8	Afghanistan	AFG	1998	3281	1267	405	3193	563	2098	3098	...	2388	4120	505	
9	Afghanistan	AFG	1999	3200	1281	409	3115	468	2084	2917	...	2437	4150	502	

10 rows × 34 columns

## DISCOVERIES

Zimbabwe recorded the maximum numbers in all variables.

In year 2019 'Respiratory\_Diseases' has the highest average values of 19473.926471 while death by poisoning recorded the lowest average of 378.088235.

The correlation test for relationship between numerical variables shows that Dementias has negative correlation with conflicts. Almost all the variables has Positive correlations

In year 1990, Zambia recorded highest cause of death from Meningitis, Vietnam from Dementias, Vietnam had total of 23,827 from Digestive\_Diseases.

Focusing in Nigeria, It shows that all year, Malaria parasite is the cause of most death because of its score margin compared to the other death causes in Nigeria.

On Meningitis, Afghanistan recorded 2159 in 1990. Andorra recorded none. While Zambia had 2065 death, Zimbabwe 1450.

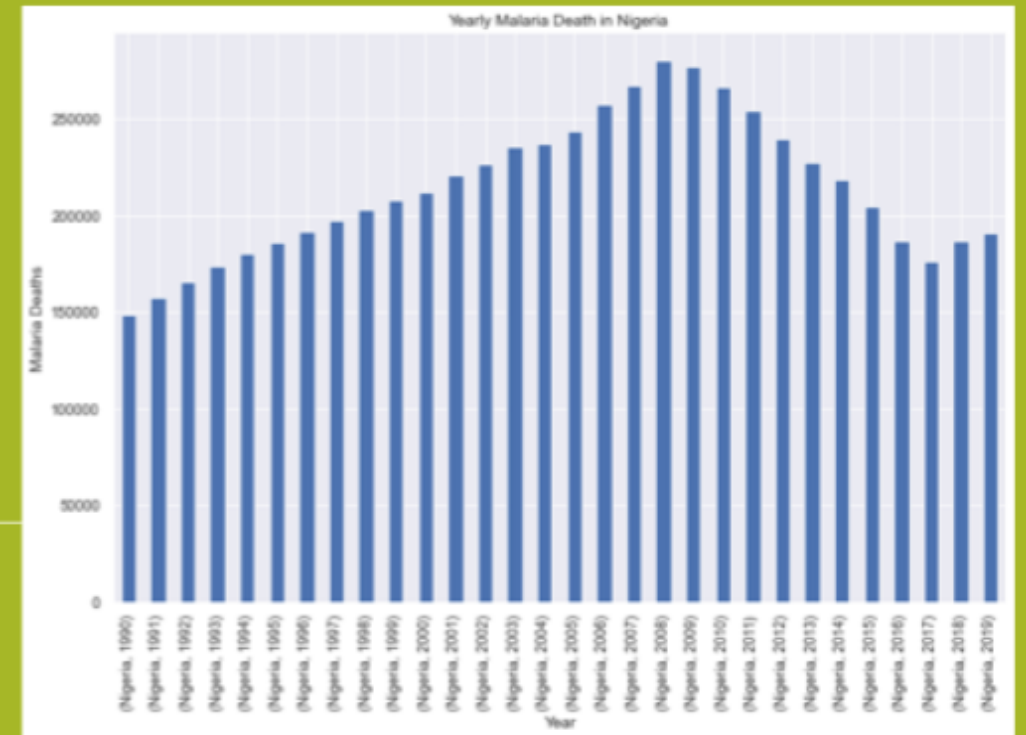
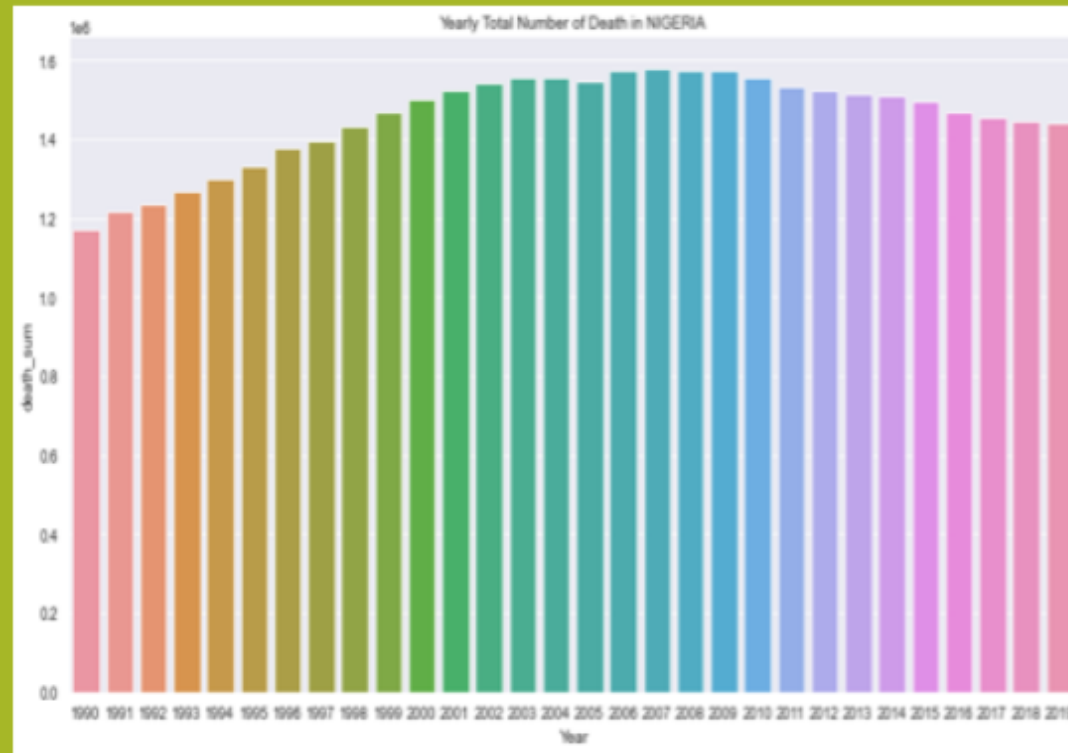
Taking analysis of the top 10 countries that had the highest score all year, China appeared as the only country scoring high from all causes of death, except that 2012-2016, 2017-2019, China had no record of Malaria death. this may be due to her large population. Overall, there was a consistent rise in the yearly total death recorded on china, though there was a reduction in 2006 and 2007. The plot is shown below:





The above plot shows the record of deaths in China and Nigeria. 2 countries from different continents. While the death records rises in China from 2010, death record reduces in Nigeria same period.

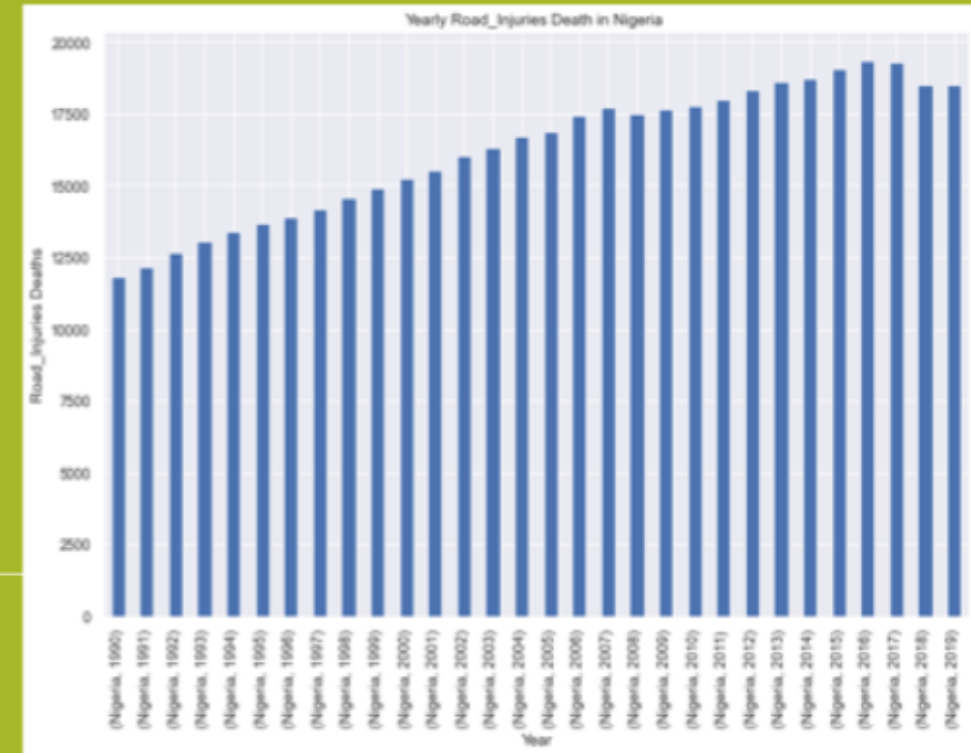
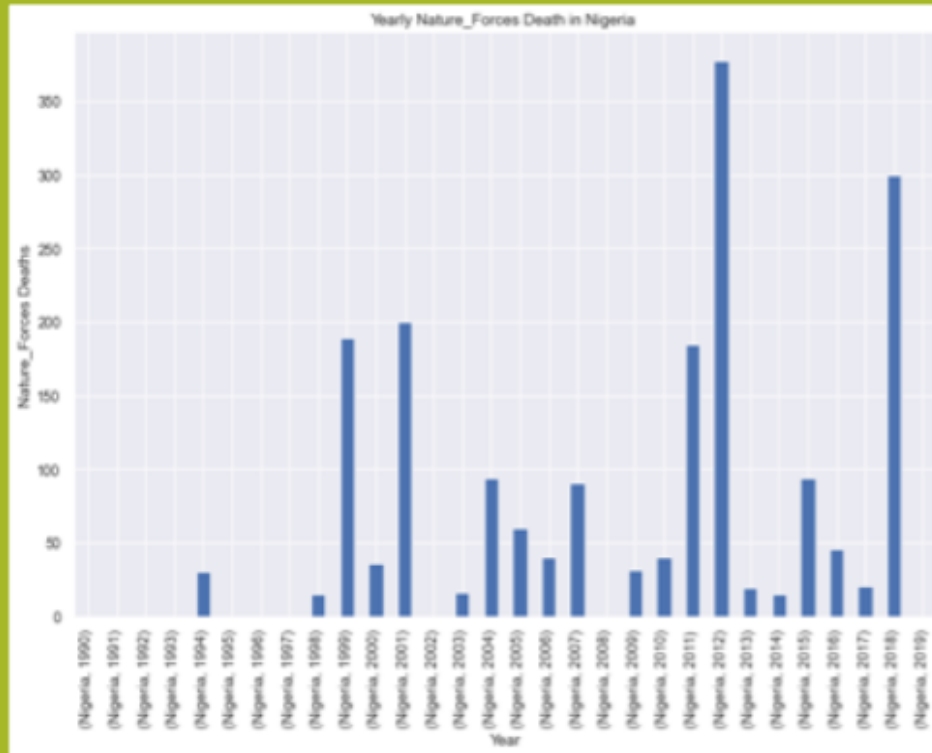
## A FOCUS ON NIGERIA



Plot 1: yearly total number of death

Plot 2: yealy record of Malaria death in Nigeria

## A FOCUS ON NIGERIA

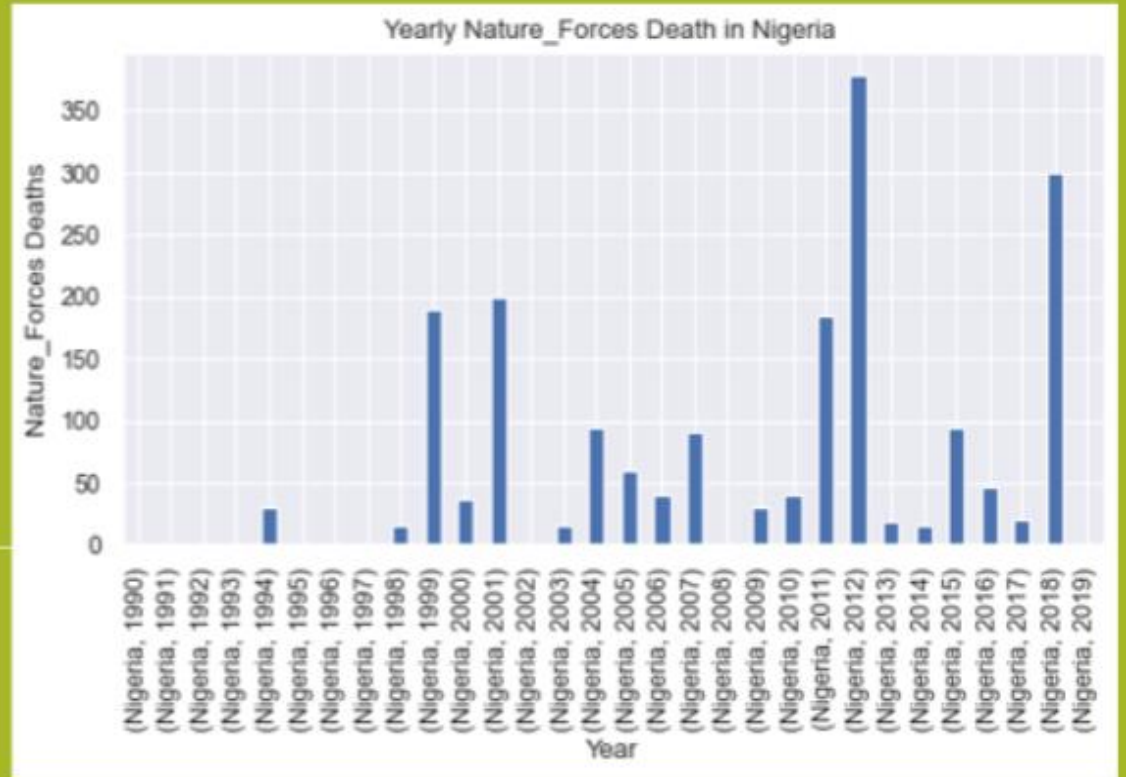
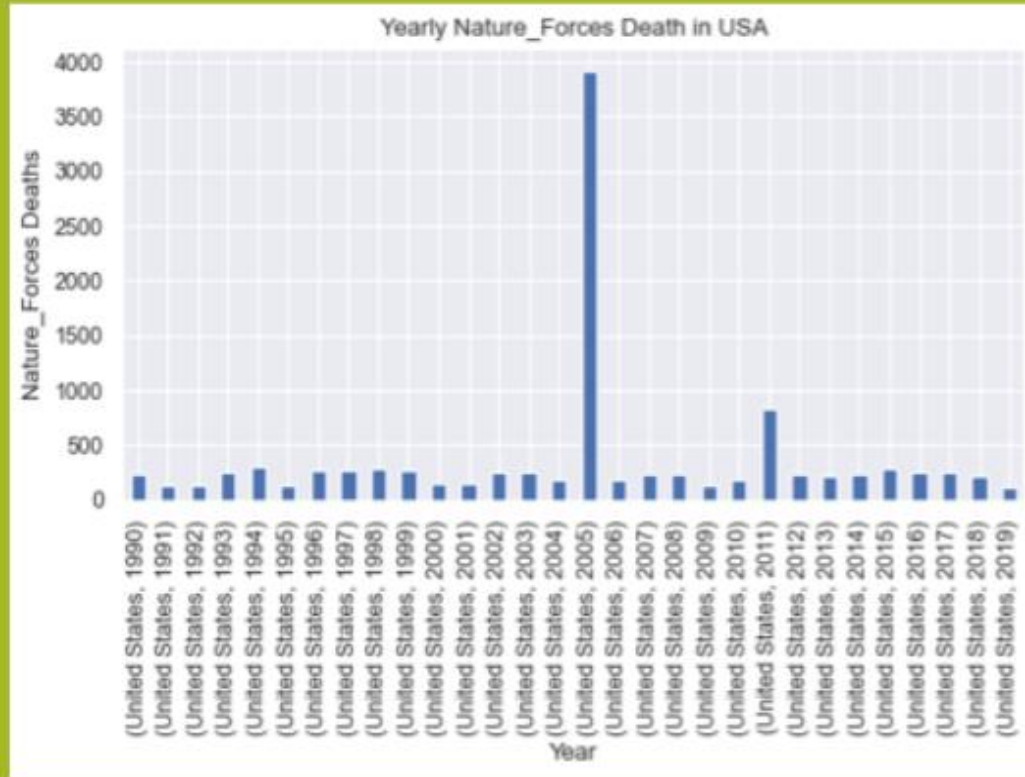


Plot 1: yearly cause of death from Natural forces

Plot 2: yearly cause of death from road injuries

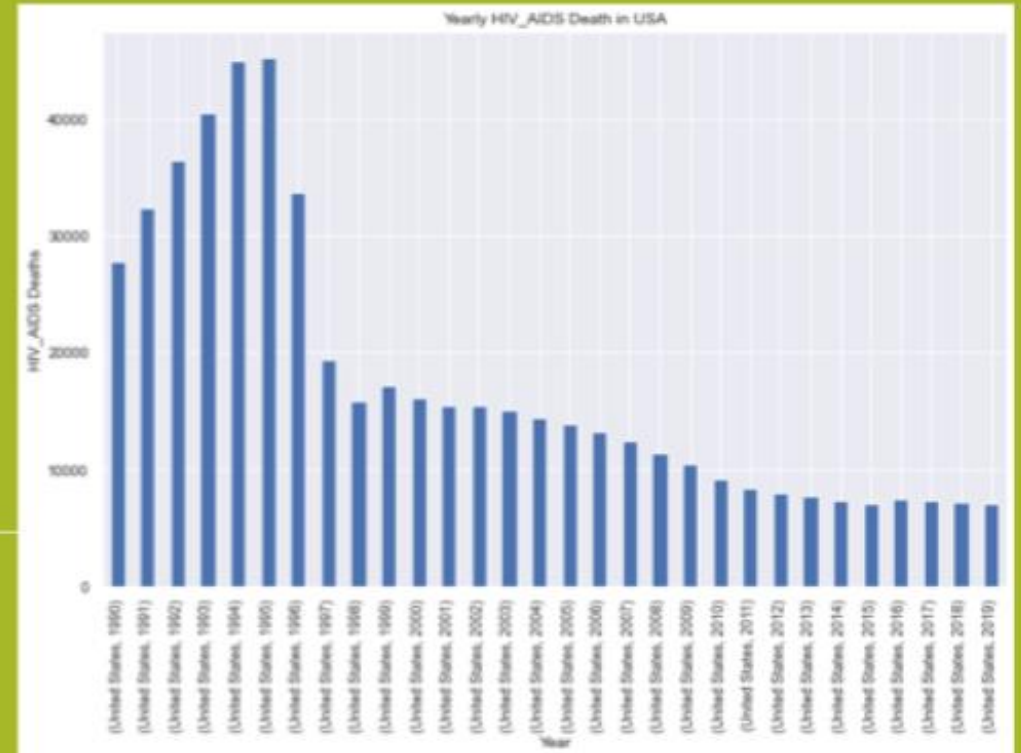


## COMPARING NIGERIA VS USA DEATH RECORDS



Yearly Death Cause from nature Forces in USA and Nigeria. I chose to compare causes from a developed country and developing country of different continents.

## COMPARING NIGERIA VS USA DEATH RECORDS



Yearly Death Cause from HIV in USA and Nigeria. I chose to compare causes from a developed country and developing country of different continents.

# CONCLUSION

## **OVERVIEW OF ALL TOP COUNTRIES WITH THE HIGHEST DEATH RESULTING FROM HIV**

FROM THE CHART ABOVE, SOUTH AFRICA, KENYA, TANZANIA, UGANDA, ZIMBABWE, INDIA, NIGERIA, ETHIOPIA, MALAWI, ZAMBIA, MOZAMBIQUE, COTE D'IVOIRE, CAMERON, CONGO RECORDED HIGH DEATH FROM HIV

## LOWEST AND HIGHEST RECORD

The 3 countries with the least death records from all variables Tokelau, Niue and Nauru.

The 3 countries with the most death records from all variables China, India and United States.

## CHALLENGES

The challenges encountered was the delay in the program execution due to the large sum of the dataset. For instance I would love to have the overview of the countries and the variables on a multiple bar plot but the large dataset made it impossible

## SUGGESTION

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## CONCLUSION

Governments of all countries should always look into statistics of other countries to know how they can improve on the health services, so that to reduce the high rate of death rise in their countries.

In recent years, there is a great reduction in the cause of death by HIV in the USA compared to Nigeria. I suggest the United States health ministry should be contacted by Nigerian government for an advice.

THANK YOU