

# **VISUALIZATION OF DATA**

## **APPLIED DATA SCIENCE ASSIGNMENT 1**

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***Repo-Link:***

## Visualization 1: Multi-Line Plot

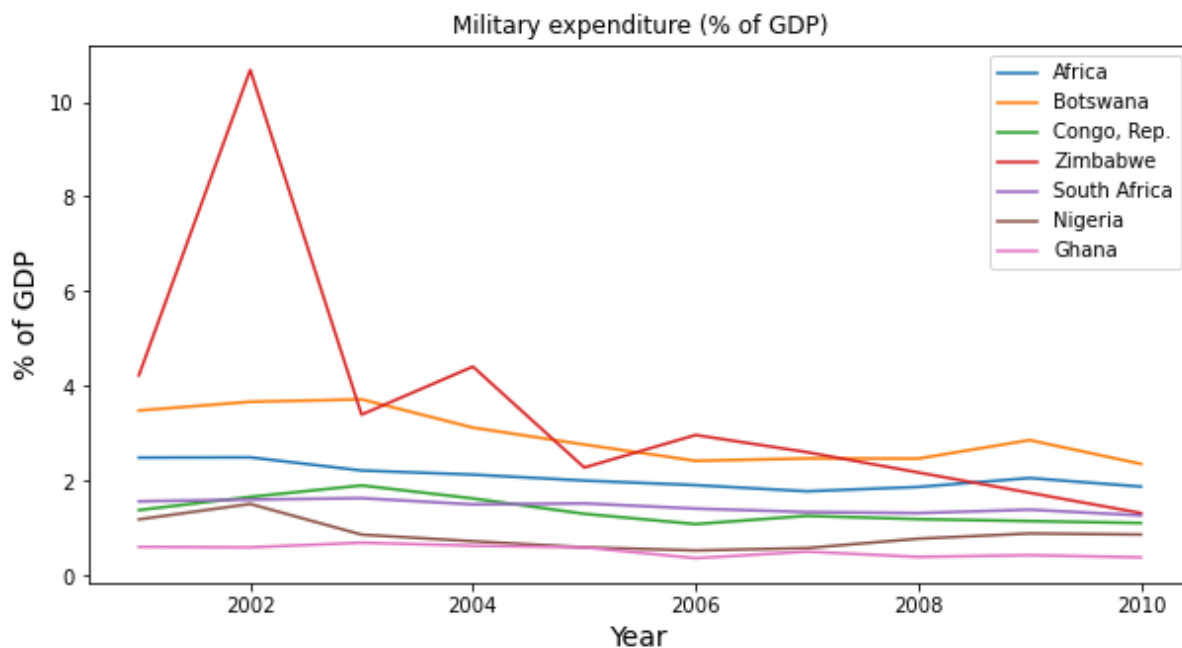


Figure 1: Multi-Line Plot for Military Expenditure of African countries from 2001 – 2010

Figure 1 illustrates a multi-line plot depicting the Military Expenditure of African countries from 2001 to 2010. Notably, Zimbabwe experienced a substantial surge in military expenditure in 2002, coinciding with its position as the country with the highest GDP during the same period. Ghana's military expenditure remained relatively stable throughout these years. Botswana has the second-highest military expenditure during these years.

## Visualization 2: Pie Chart

From Figure 2 we can conclude that in 2005, Zimbabwe's military expenditure witnessed a significant drop from 48% to 20.6%, reflecting a notable decline in its allocation of resources towards defense. Meanwhile, Botswana experienced a contrasting trend with a notable increase of 9% in military expenditure over a span of just 2 years, signaling a strategic focus on bolstering its defense capabilities. Additionally, both South Africa and the Democratic Republic of Congo showed a modest uptick in military spending, indicating a continued emphasis on maintaining their respective national security.

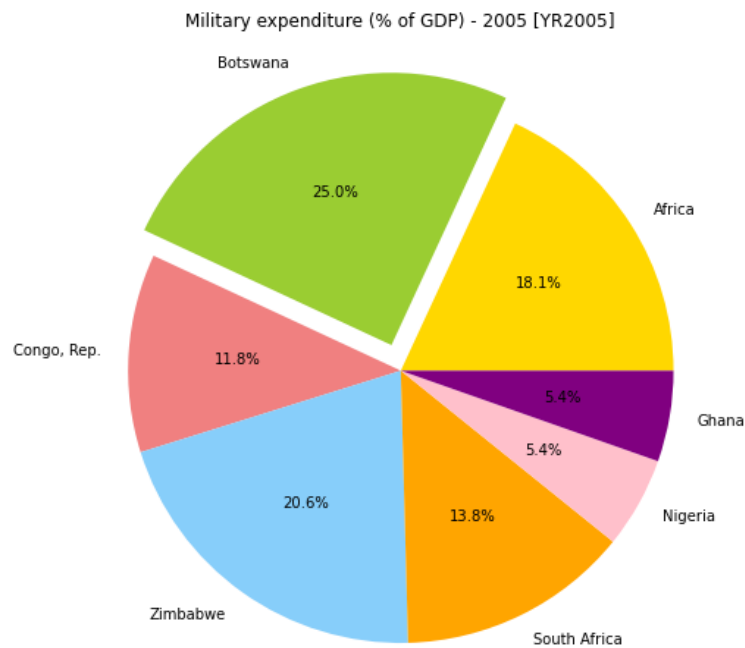


Figure 2: Pie-Chart of Military Expenditure of African Countries for the year 2005

### Visualization 3: Bar Chart

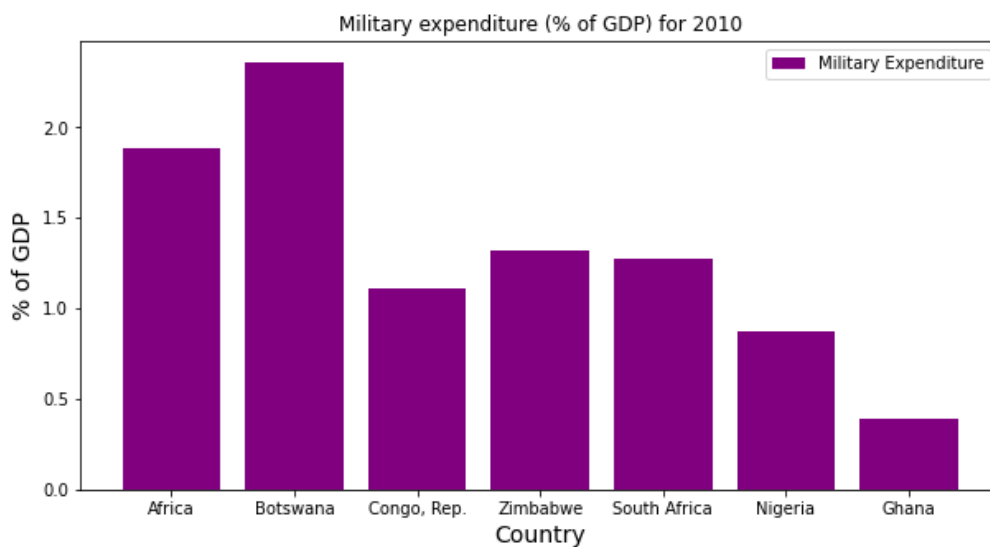


Figure 3: Bar Chart of Military Expenditure of African Countries in the year 2010

By 2010, Botswana emerged as the country with the highest Military Expenditure, exemplifying its significant investment in defense capabilities. Notably, Zimbabwe's military expenditure closely rivaled that of South Africa, highlighting their comparable levels of commitment to national security. In contrast, Ghana continued to maintain the lowest military expenditure among the mentioned countries, indicating a relatively lower prioritization of defense spending.