# BRICS NATIONS OLYMPIC MEDAL ANALYSIS

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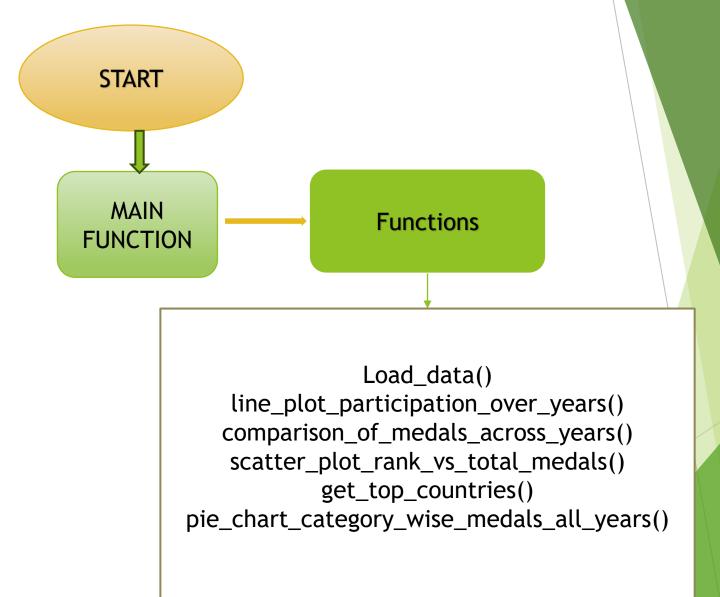
#### Motivation

- BRICS is an intergovernmental organization comprising Brazil, Russia, India, China, and South Africa.
- Understanding Performance Trends : can help identify patterns, improvements, or challenges over the years
- Promoting Sports Culture within the BRICS nations : engage communities in sports

#### Overview

- Python based analysis using pandas, matplotlib
- Columns in Data set: Year, Host city, Total Athletics, Gold, Silver, Bronze, Total Medals, Rank, Country
- Data range: 1984 to 2020
- Note that During 1984 and 1988 Russia is part of Soviet union nation.
  - 1992 part of unified team
  - In 2020 represented as Russian Olympic Committee

# **Block Diagram**



#### Pseudo code

```
# call main function
if __name__ == "__main__":
   main()
#functions to be called in main function
def main():
  olympic data = load data()
  display_data_head(olympic_data)
  # Plotting using Matplotlib
  # Call your analysis functions
  line plot participation over years(olympic data)
  bar_plot_total_medals_by_country(olympic_data)
  comparison_of_medals_across_years(olympic_data)
  bar_plot_medals_distribution_in_year(olympic_data, 2020)
  scatter_plot_rank_vs_total_medals(olympic_data)
  stacked_bar_plot_total_medals_distribution(olympic_data)
```

## pseudocode

```
#load data

def load_data():
    return pd.read_csv('F:\\python_pro\\olympic_statistics_modified.csv')

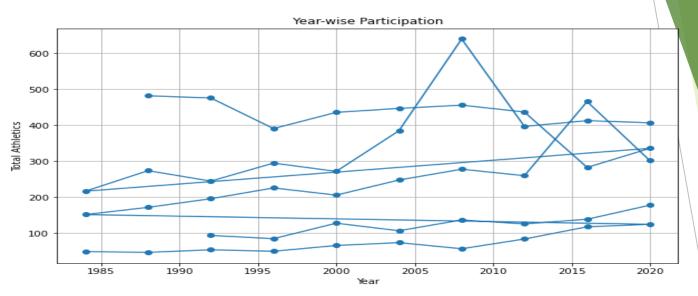
#some other function

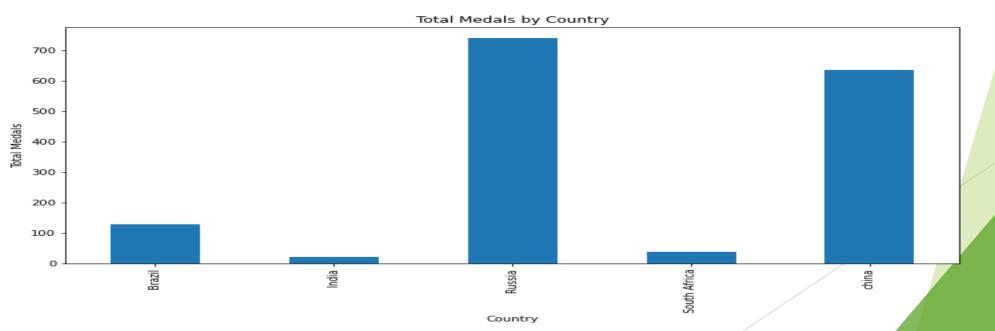
plot_medals_over_years(olympic_data)

pie_chart_category_wise_medals_all_years(olympic_data, 'India')

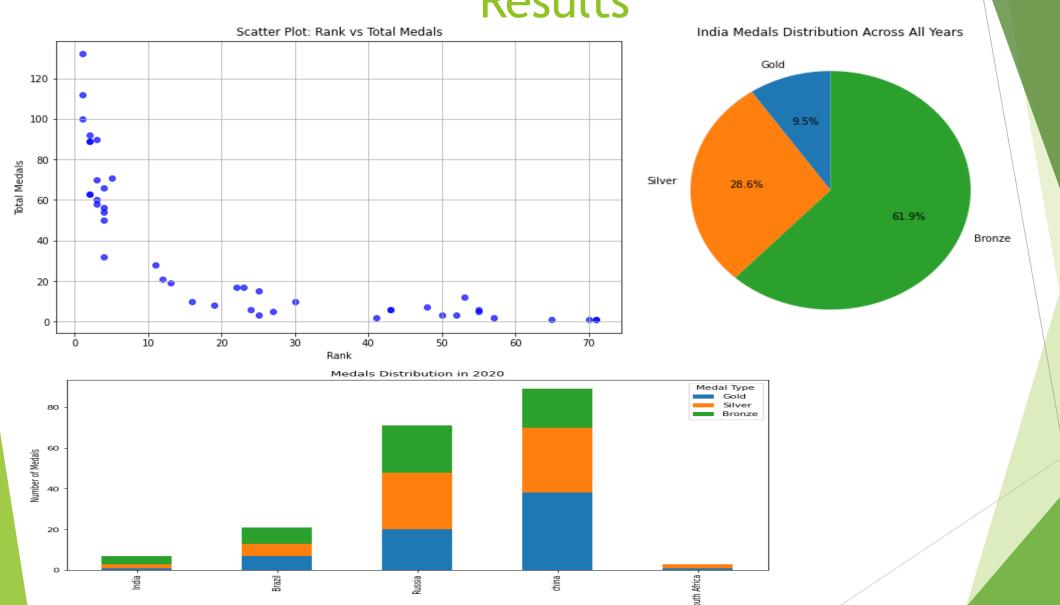
get_top_countries(olympic_data, 2008, 4)
```

# Results





#### Results



Country

## Executing the Python code

#### Observations after executing the code:

- -Both Russia and China appears to be a consistently strong performers across multiple years
- -India's medal count is comparatively lower

# Thank you