



PRESENTATION

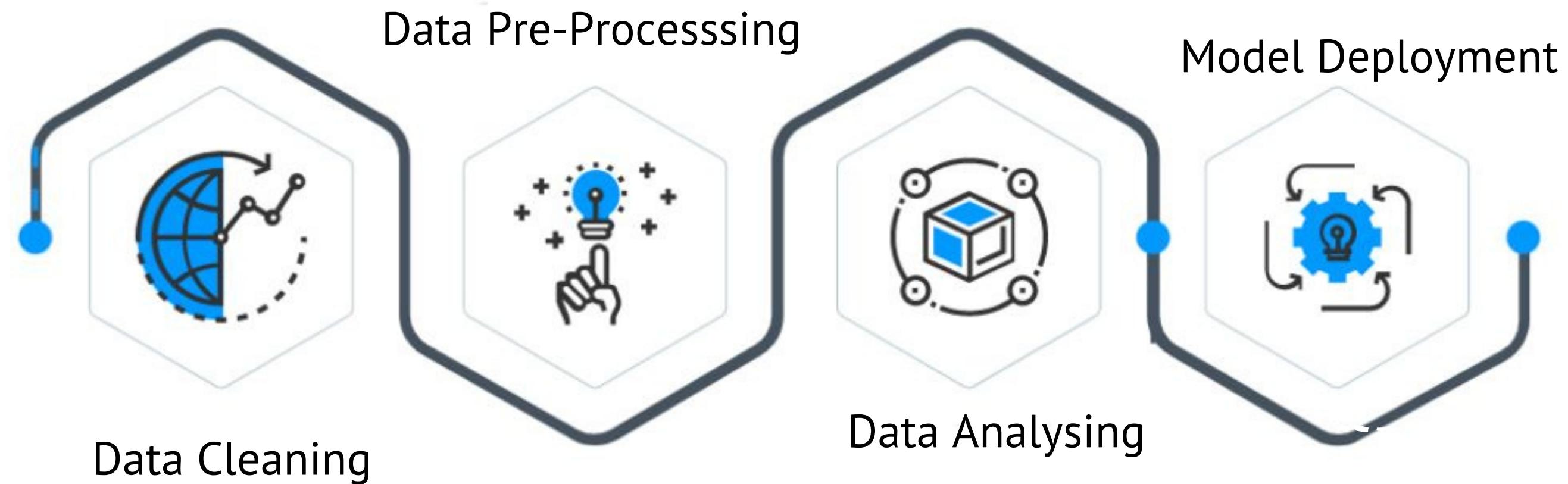
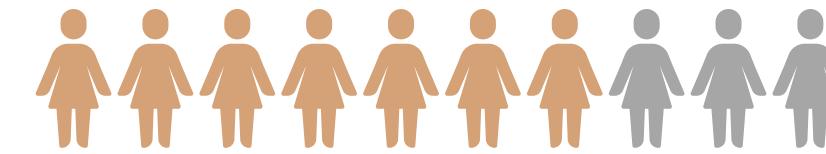
**Team :- 53
Brewing Java**

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SUMMARIZING THE PROBLEM

- In this problem statement, we have to determine the factors on which a country's life expectancy depends and improve the efficiency so that importance can be given to the major contributing factors/areas to increase the life expectancy of the countries population.

OUR APPROACH

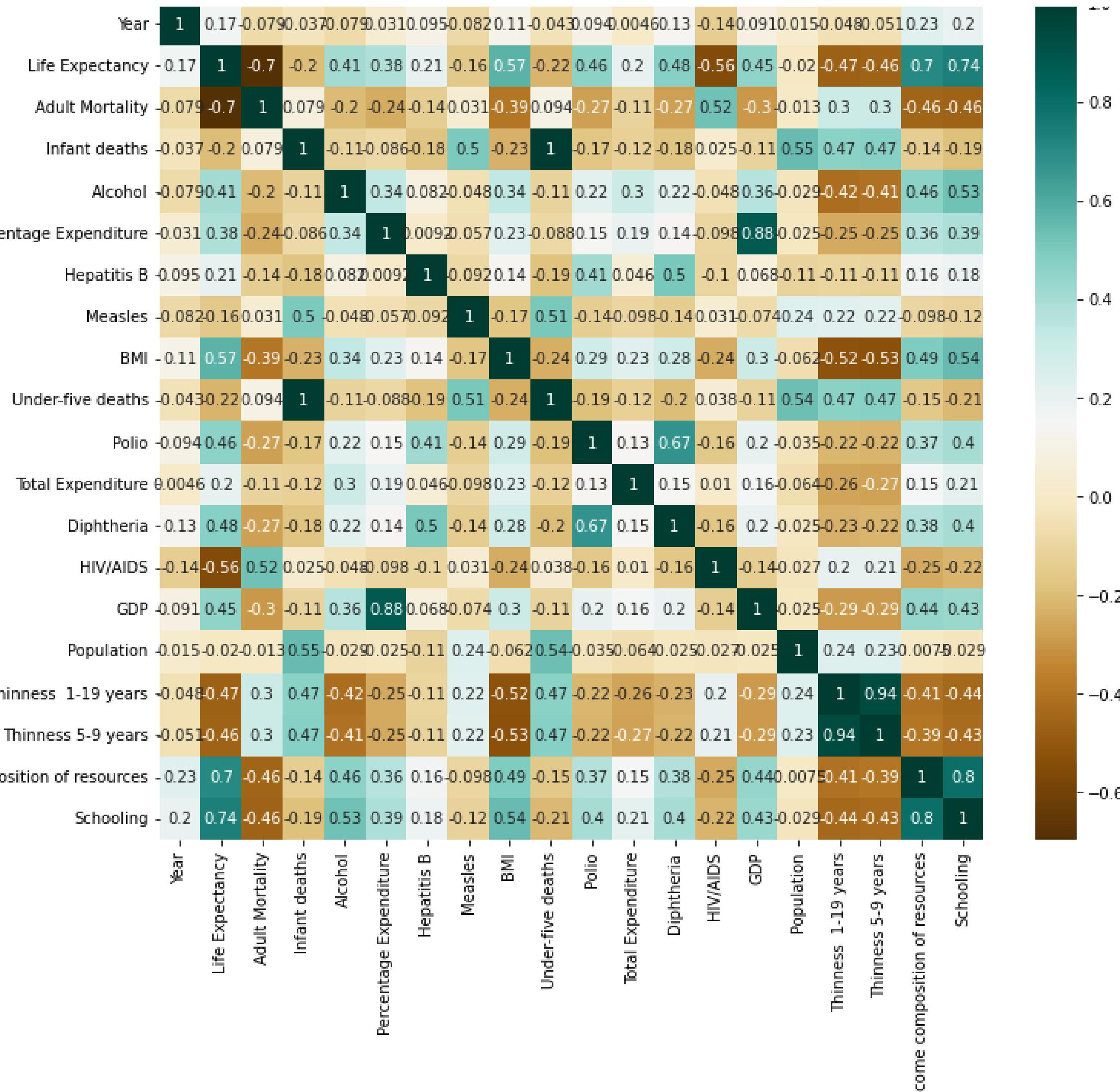


Effective Solution

```
corr_matrix=df.corr()
```

```
plt.figure(1, figsize=(12,10))  
sns.heatmap(corr_matrix,  
cmap='BrBG', annot=True)
```

```
corr_matrix =  
corr_matrix.drop('Life Expectancy')  
corr_matrix['Life  
Expectancy'].abs().sort_values(asce  
nding=False)
```



PREDICTION FROM HEAT CHART

- Life expectancy is positively correlated with education, resource income composition, GDP, diphtheria, polio, and percentage spending.
- Life expectancy is negatively correlated with Adult_mortality, Thinness_1-19_years, Thinness_5-9_years, HIV / AIDS, Under_five_deaths, and Infant_deaths.
- Adult mortality is negatively correlated with life expectancy and positive correlated alcohol consumption.
- HIV/AIDS positively affects adult mortality rates, while education and income composition of resources negatively affect it.
- Infant_deaths and Under_Five_deaths have a strong positive correlation.
- Schooling and alcohol have a positive relationship.
- Percentage expenditure shares a positive relationship with education, the composition of resource income, GDP and life expectancy.
- Hepatitis B has a strong positive relationship with polio and diphtheria.
- Polio also has a strong positive relationship with diphtheria, hepatitis B, and life expectancy.
- Diphtheria has a strong positive relationship with polio and life expectancy.

A silhouette of a person's head and shoulders facing right, sitting at a desk. On the desk are a white keyboard, a white mouse, a white AirPods case with one earbud out, a small potted succulent, and a spiral-bound notebook with a wooden pencil resting on it.

THANKS FOR WATCHING

