Visual Insights from EDA Analysis on Suicide Rate (1990-2022) Project

Visualizing Suicide Trends

1. Data Preparation: Aggregating suicide counts and rates per 100k population by year.

2. Subplot Setup: Creating a 1x2 subplot layout (16x6).

 ➢ **Total Suicides**
 a. Line plot of total suicide counts.
 b. Annotations for max/min years.
 c. Trend line added.
 d. Title: "Total Suicides Trend".

 ➢ **Suicides per 100k**
 a. Line plot of rates per 100k population.
 b. Annotations for max/min years.
 c. Trend line added.
 d. Title: "Suicides per 100k Trend".
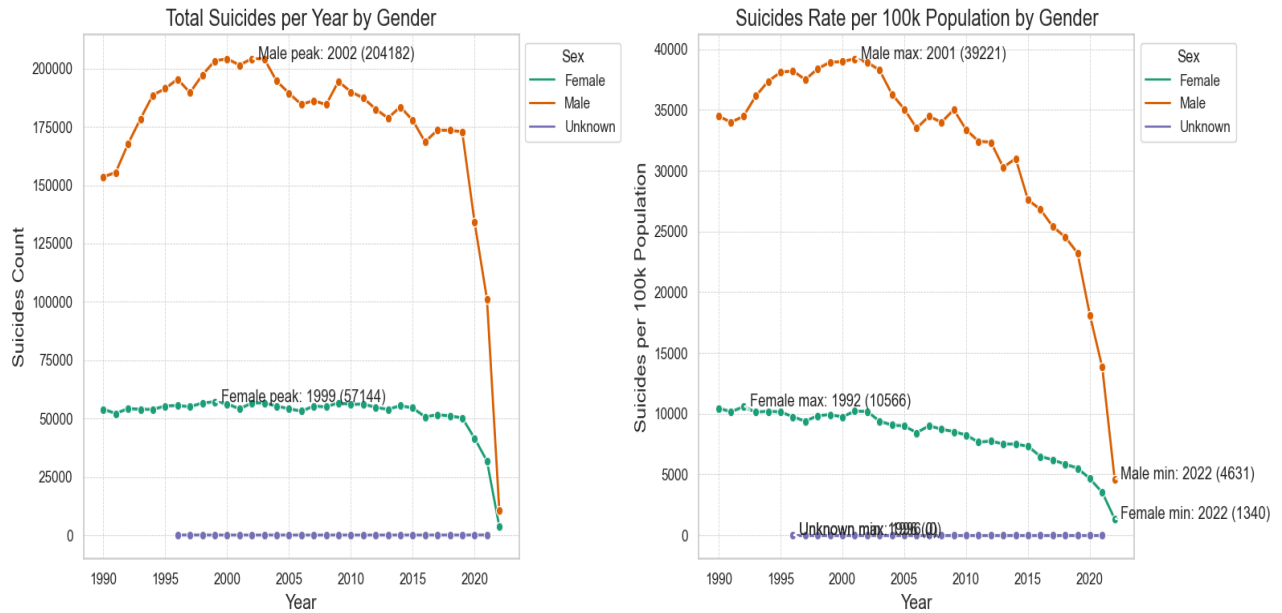
5. Finalize: Adjust spacing with plt.tight_layout() and display with plt.show().
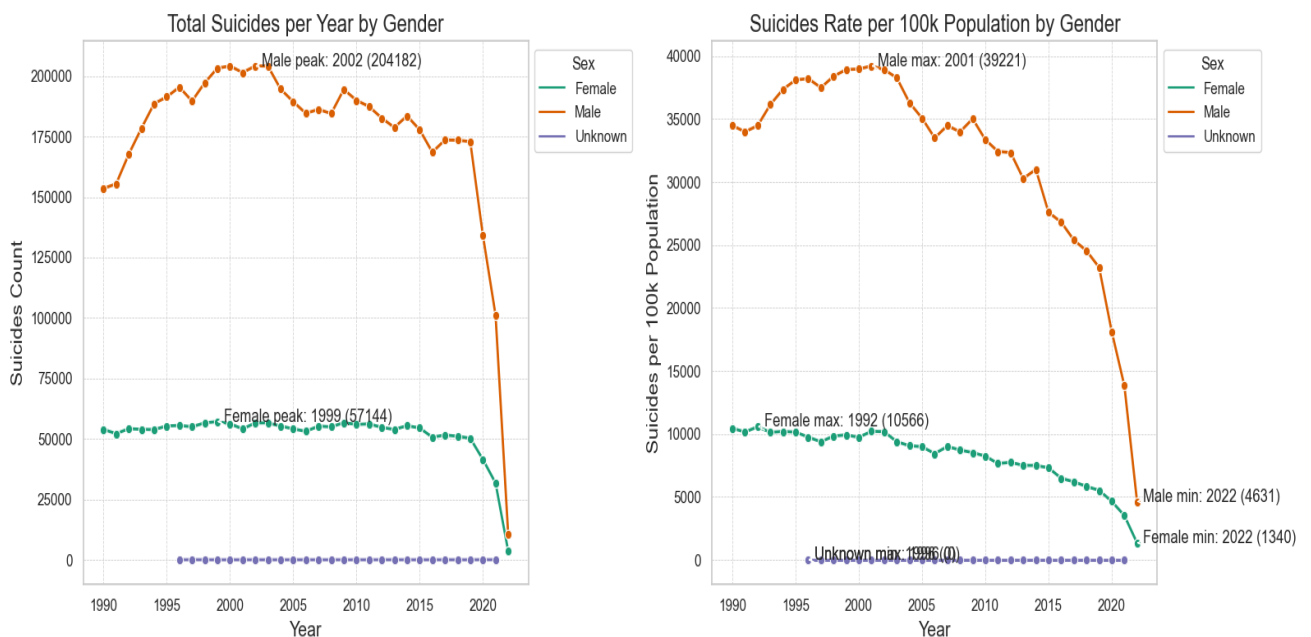
Plot for Suicides Count BY GENDER

PLOT - 1

Total Suicides Count per Year by Gender
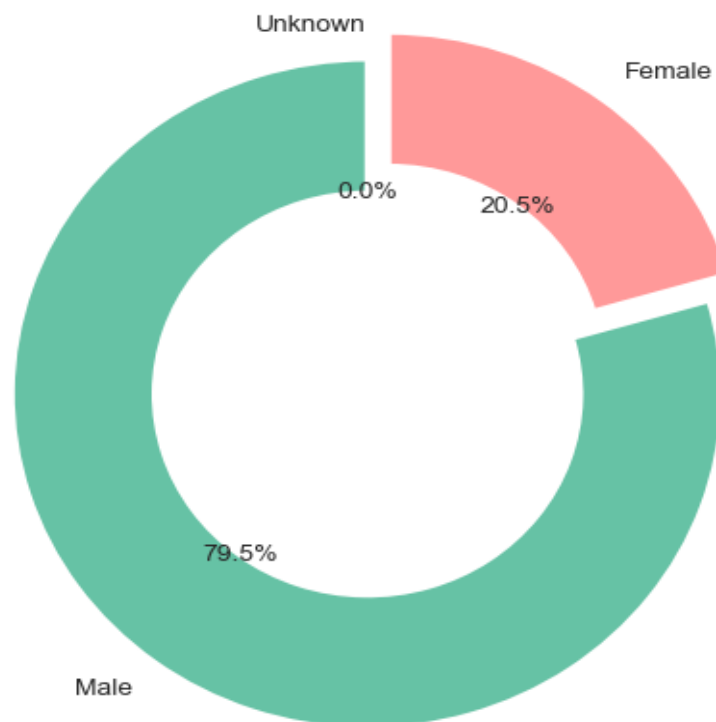

PLOT - 2

Suicides Rate per 100K by Gender

Suicides Trend by Gender

Certainly:

➢ The suicide rate per 100K population is predominantly represented by males, constituting 79.5% of the total.

➢ Females account for 20.5% of the suicide rate per 100K population.

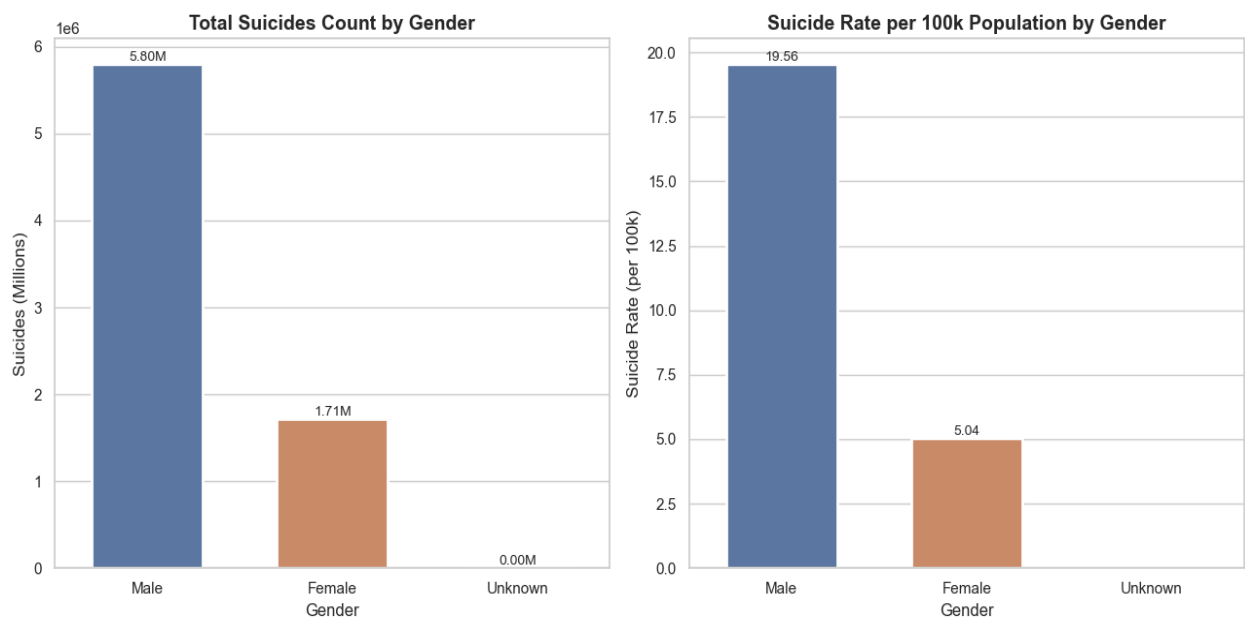➢ There is no data available for suicides categorized under an unknown gender.

Suicide Rate per 100k Population by Gender

Unknown

Female

0.0%

20.5%

79.5%

Male

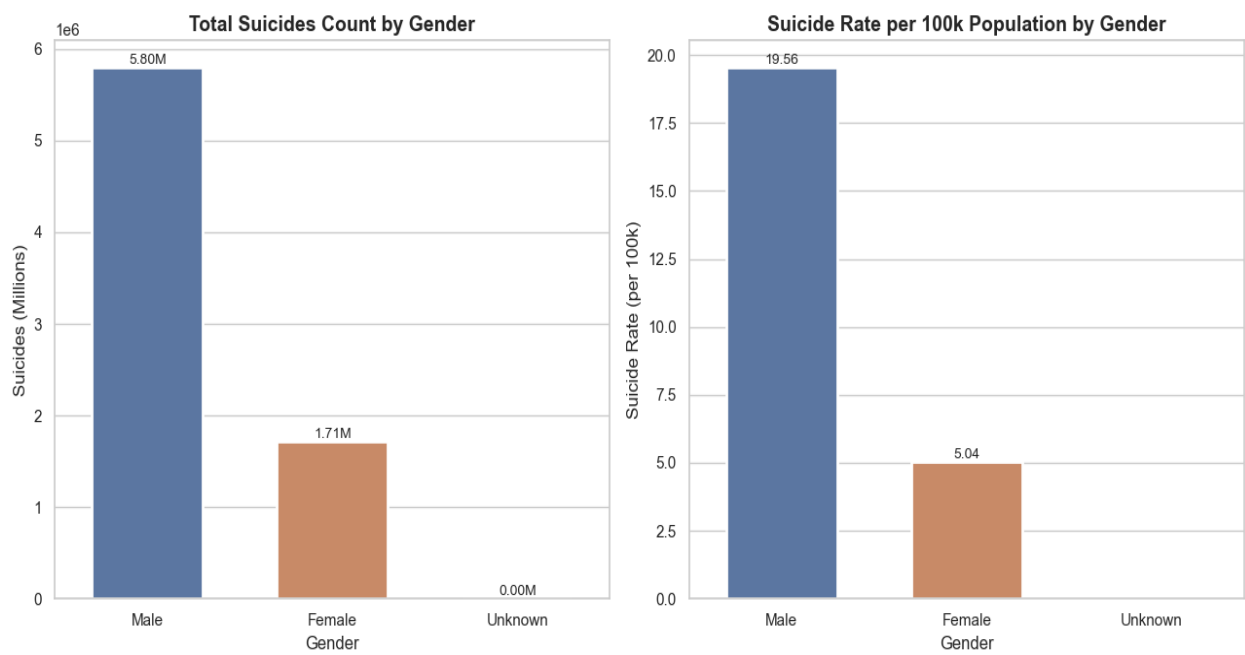# Total Suicide Count and Death Rate per 100K by Gender

Plot 1:

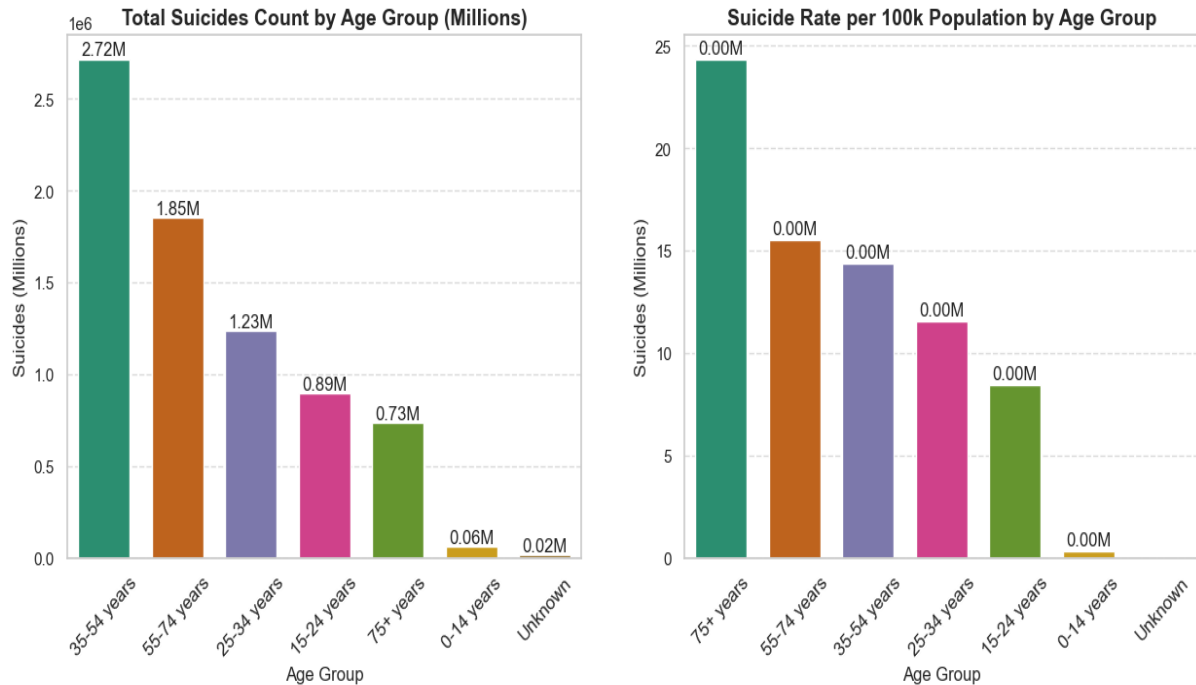## Total Suicides Count by Gender

Plot 2:
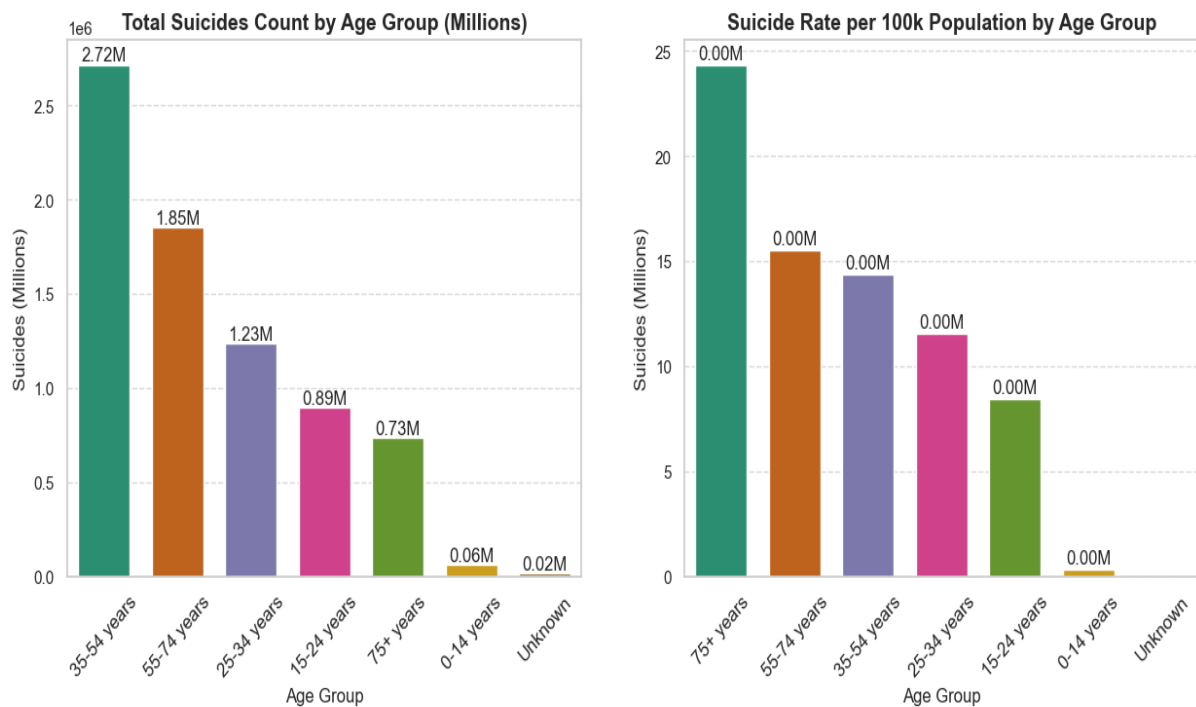
Suicide Rate per 100 K Populations by Gender

Age Influence
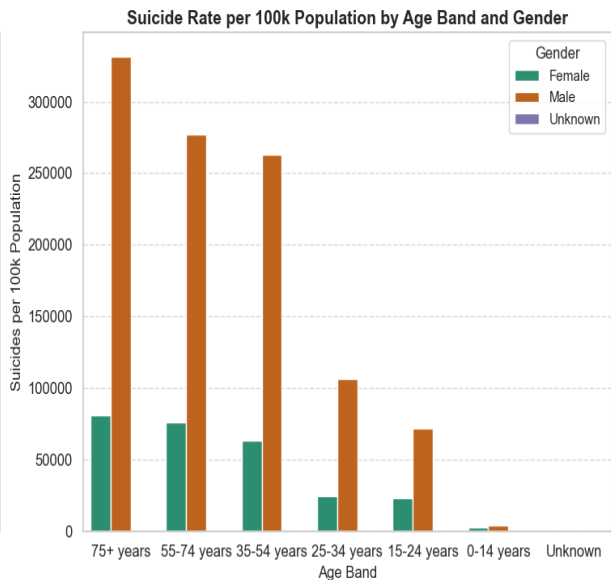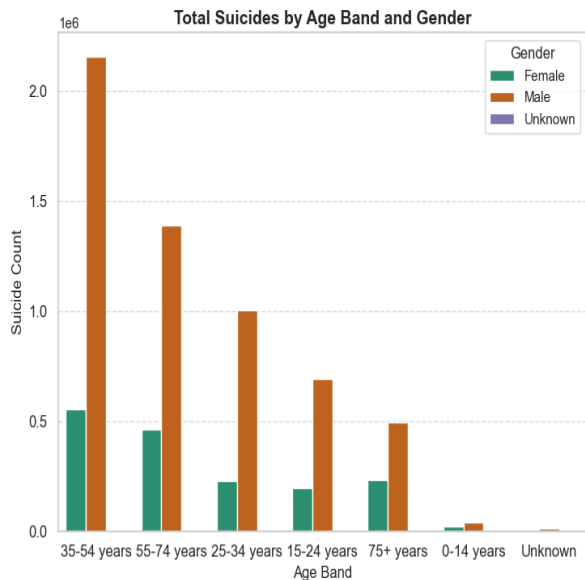
Plot 1:

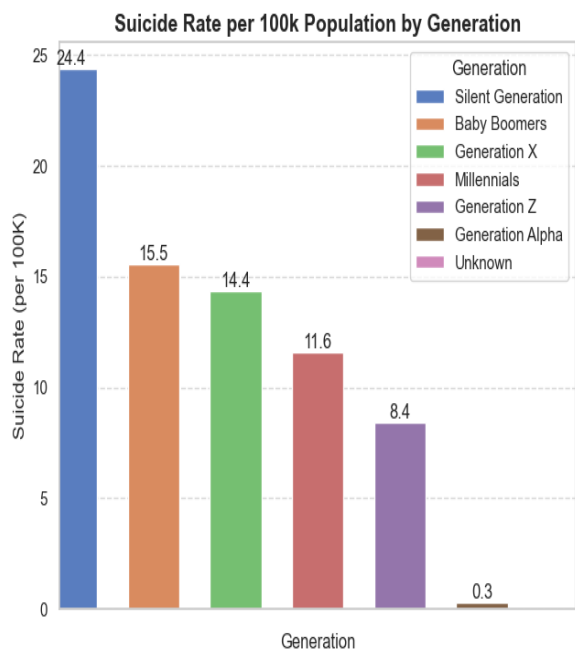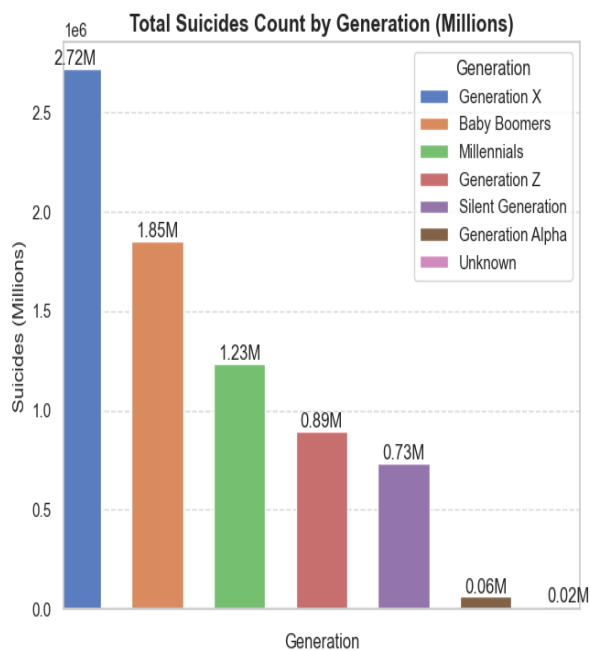## Total Suicide Count by Age Group

Plot 2:

Death Rate per 100K Population by Age Group

Total Suicides by Age and Gender (staked)

Total Suicides by Age Band and Gender

Suicide Rate per 100k Population by Age Band and Gender

Generation Influence

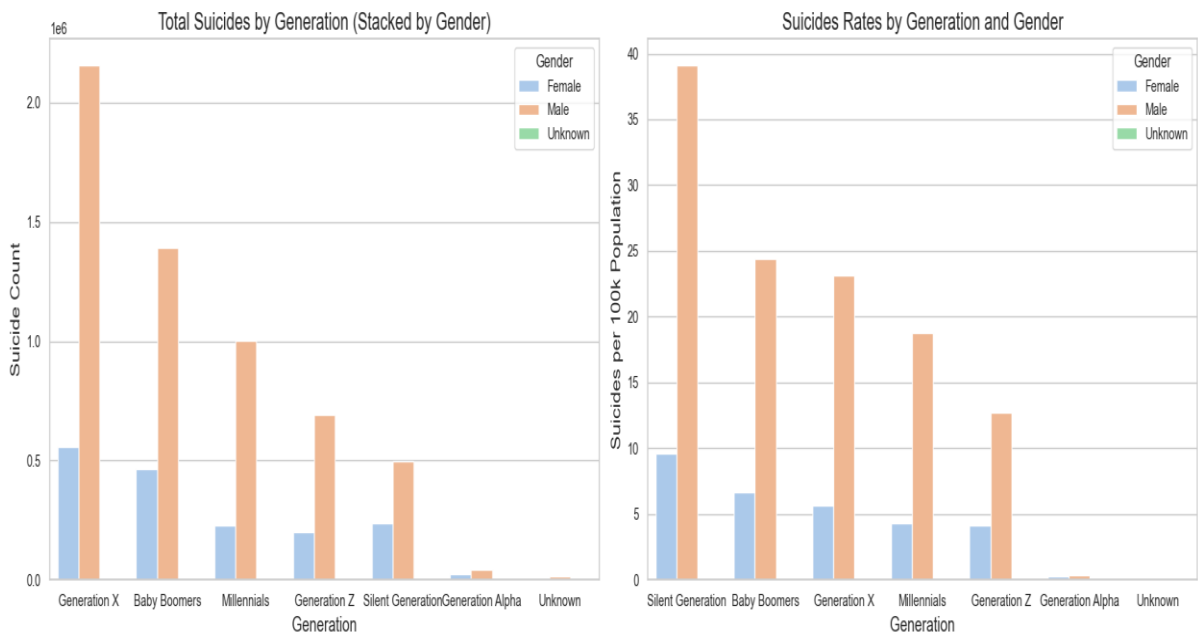## Total Suicides Count by Generation (Millions)

Suicide Rate per 100k Population by Generation

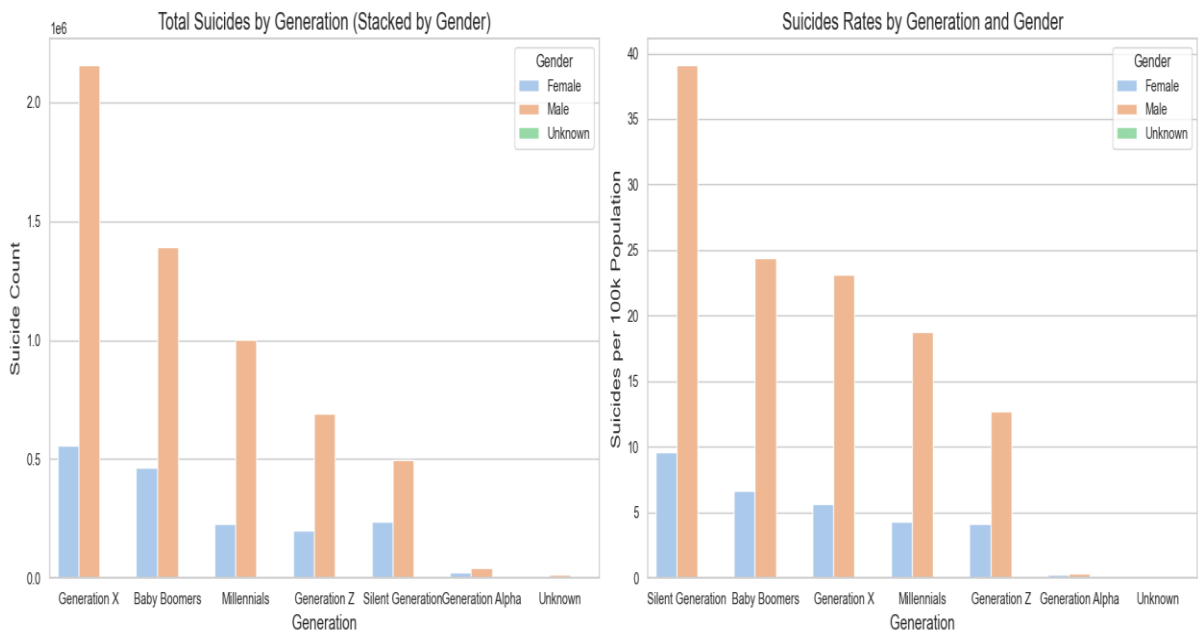# Total Suicides by Generation stacked by Gender

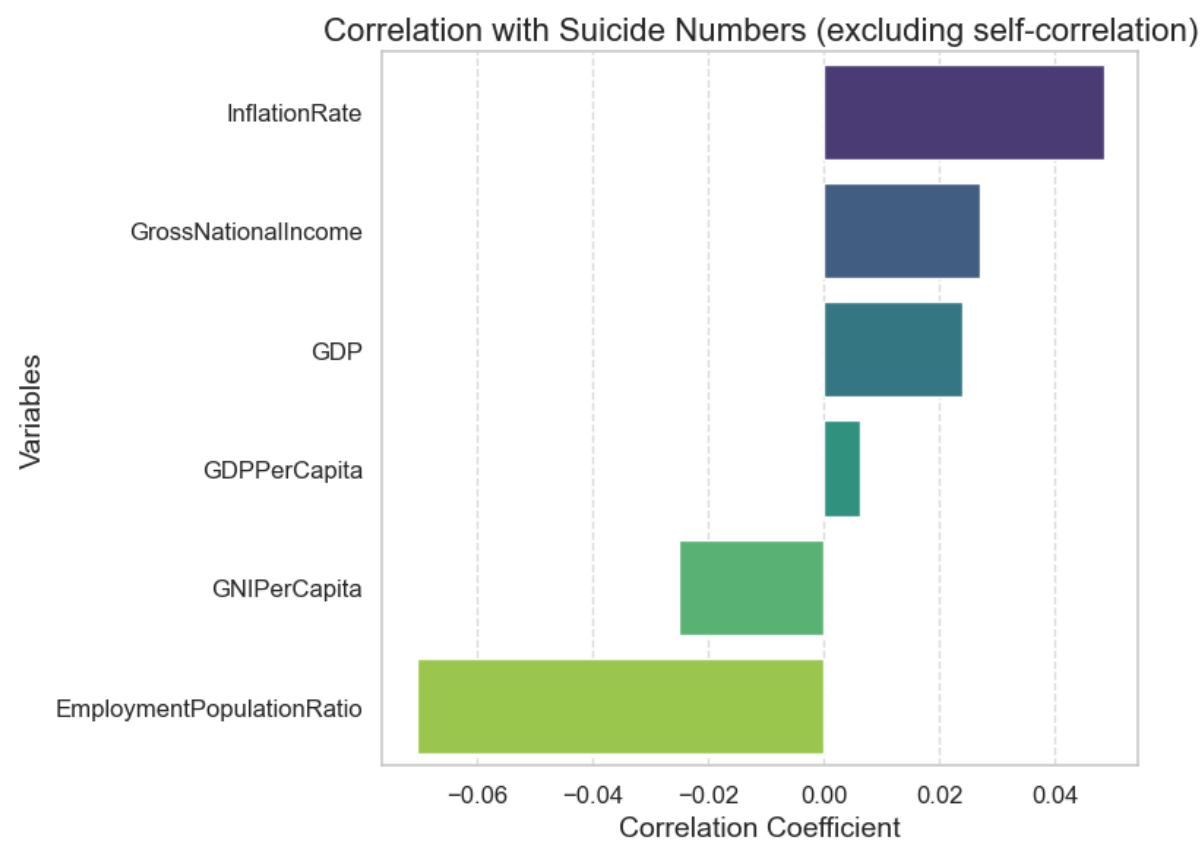Plot 1:

Total Suicides by Generation (Stacked by Gender)

Plot 2:

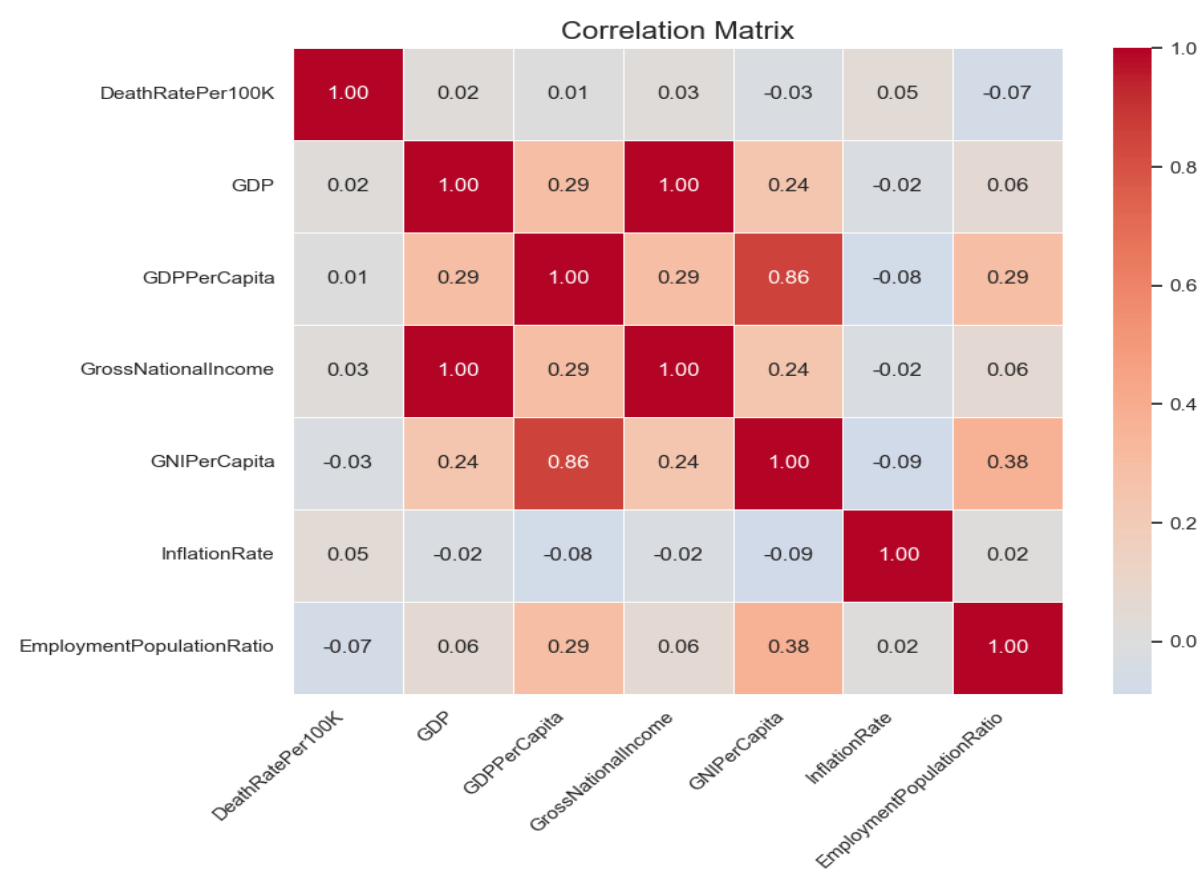**Suicides rates by Generation and Gender**

Economic Impact and Correlation

Correlation Matrix

Correlation Matrix

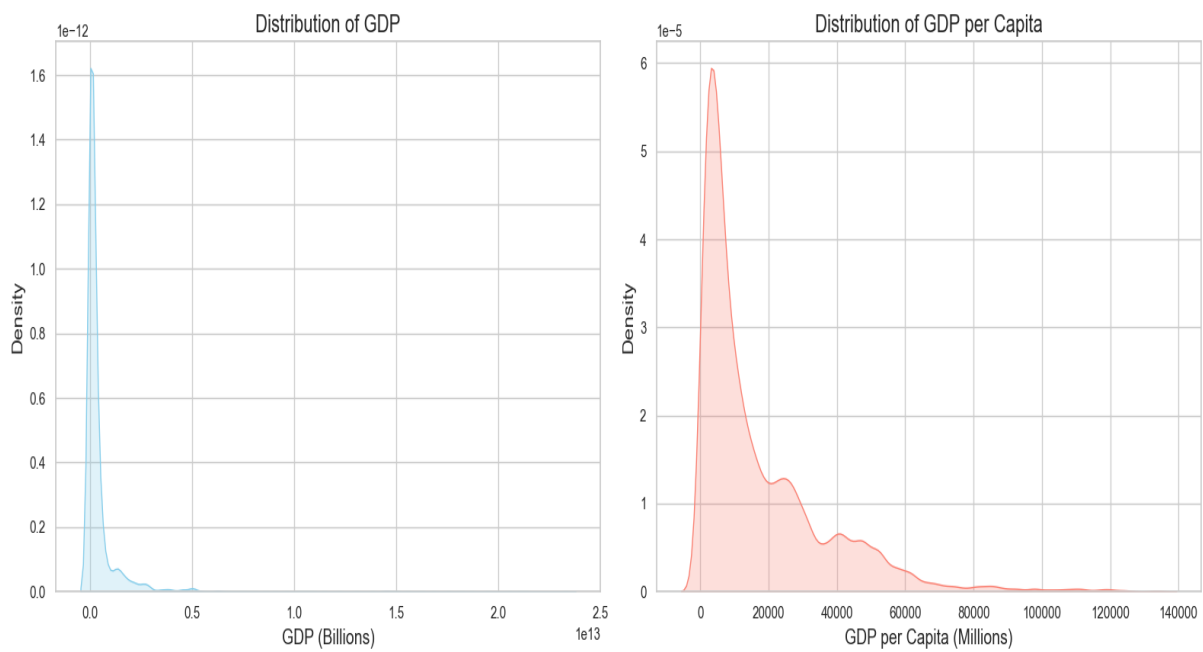Correlation with Suicide Numbers (excluding self-correlation)

GDP Distribution Analysis

Distribution of GDP

Distribution of GDP per Capita

✦ **For detailed insights from EDA Kindly visit other separate file**.