

DV Mini Project Report

Team Members:

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Overview and Motivation:

Our application presents **data visualizations and statistics** on suicide rates across various countries, broken down by age groups and genders. Its **primary target audience** includes researchers, mental health professionals, and policymakers who can use the interactive features to study trends and identify measures to address the harmful impact of suicide. By raising awareness about suicide rates, the app can also serve as a valuable resource for individuals struggling with mental illness.

Our app is **interactive**, ensuring that anyone looking to analyze the trends in the data will be able to study them with ease. It also furthers efforts to **mitigate the detrimental effects** of such phenomena and allows the wider community to visualize the effects of the changes being made to the lessen the suicide rate.

The Data:

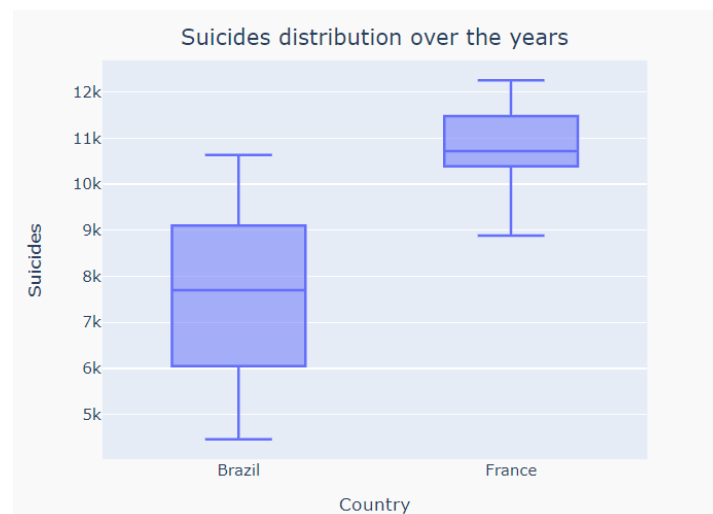
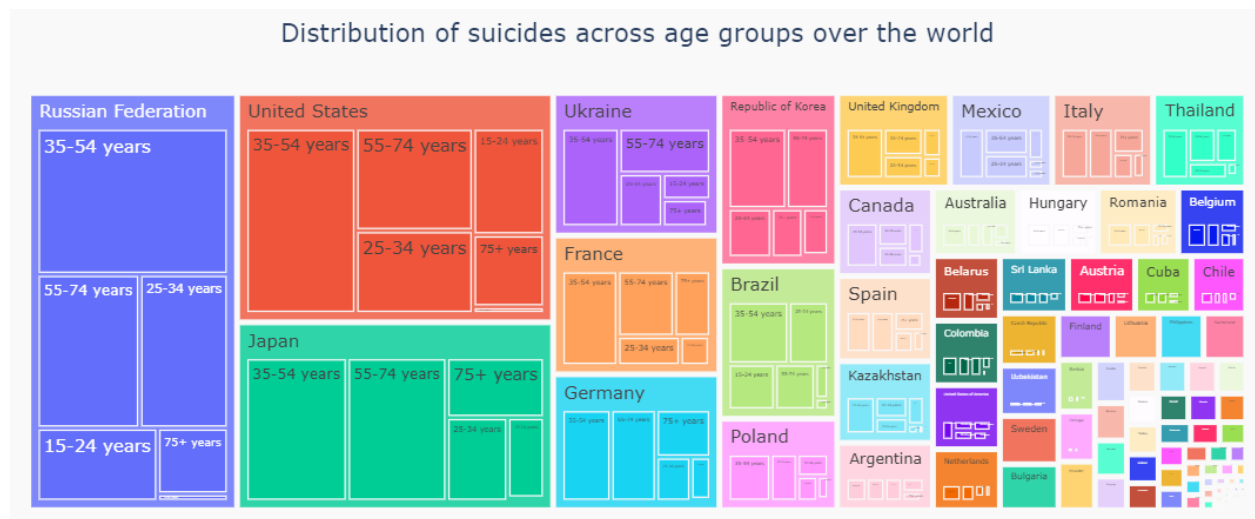
The dataset used is the 'Suicide Rates Overview (1985 to 2021)' data, available on Kaggle. This dataset's sources include the World Health Organization, the World Bank, and the United Nations Development Programme, ensuring that the information is of high quality and reliability. The following points briefly explain the dataset:

1. The dataset covers over **three decades** from 1985 to 2021, making it a valuable resource for analyzing long-term trends and patterns related to suicide rates.
2. It includes data on the total number of suicides, suicide rates, and **population estimates** for both genders and different age groups, providing a comprehensive view of suicide rates globally.
3. The dataset also provides additional data related to **socio-economic factors**, such as GDP per capita, unemployment rates, and human development

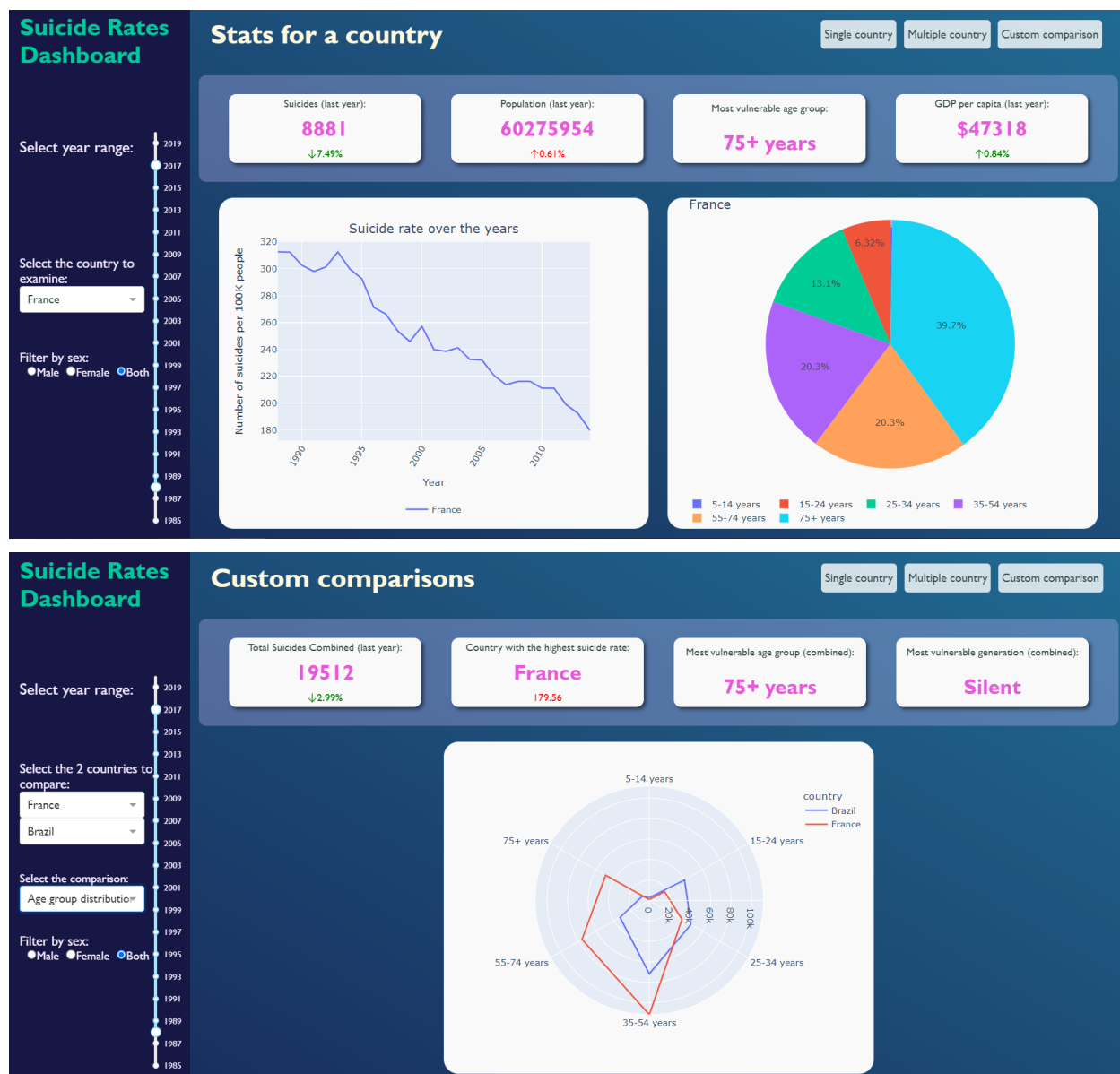
indices, which can help researchers and analysts understand the underlying causes and contributing factors to suicide rates.

The App:

The application contains 3 distinct pages, one to analyze trends per country, one to compare trends between any 4 countries and one to plot custom graphs of the user's choice. The detailed walk-through of the app is shown in the video and a few of the visualizations are given below:



Few of the Visualizations



The website