

SCS 3250-041 FOUNDATIONS OF DATA SCIENCE

ANALYSIS REPORT: GLOBAL SUICIDE TRENDS

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GROUP 1

Ekenedilichukwu Ani

Prabhdeep Jammu

Daniel Romney

Ulker Tas

Concetta Volpe

Introduction

Our group decided to focus on suicide rates worldwide. Our team pulled the [dataset](who-suicide-statistics.zip) from the World Health Organization which reviews all suicides reported worldwide from 1985-2016.

In this report we will be exploring our findings and the patterns we considered to be influential in the data.

To begin, we cleaned the data to pull the countries with the most fulsome reports using python, leaving us with 73 countries.

We further analyzed the data by investigating the straightforward information first such as total number of suicides. We then analyzed the data by comparing age, generation and sex, and year.

There were several keys indicators we looked at when analyzing the data in more detail.

We studied the trends and determined further analysis was needed, we reviewed the suicide trends experienced in Canada vs Global in detail to understand major differences and overlaps. Additionally, we explored which countries had the largest increases and deceases in suicides rates over a ten-year span. We looked at these trends again by sex and age to determine if there was anything that stood out from our analysis.

After comparing Canada vs Global trends, we explored if certain factors affected this data. We began exploring the suicide rates between developed and developing nations, looking at both GDP and HDI information.

We also investigated the full dataset and compared suicide rates to weather metrics to determine if this was also a key factor when looking at suicide rates by country than age.