Proposal

Yiru Gong, Jiaqi Chen, Xinran Sun, Yunlin Zhou

11/10/2021

The group members (names and UNIs)

Jiaqi Chen, jc5681 Xinran Sun, xs2447 Yiru Gong, yg2832 Yunlin Zhou, yz4184

The tentative project title

World Happiness' Relationship to Social Factors

The motivation for this project

We chose this dataset because we want to analyze what factors affect people's happiness scores. Factors that are included into our consideration are country, year, GDP, healthy life expectancy at birth, freedom to make life choices, generosity, and perceptions of corruption. Our goal is to find out both direct and inverse relationships between people's heappiness and above factors.

The intended final products

The anticipated data sources

We downloaded this dataset from Kaggle.com.

```
library(readxl)
happiness_data = read_excel("DataPanelWHR2021C2.xls")
```

The planned analyses / visualizations / coding challenges

We will first visualize the global happiness score distribution with a world map and rank with bar plots. Besides, a yearly alteration line plot will be presented. Then we will investigate the relationship between happiness score and GDP, social support, life expectancy, freedom score to make life choices, Generosity, Perceptions of corruption, and interactive scatter plots with fitted curve will be ploted.

The planned timeline

November 16-19: Project Review Meeting November 20-26: Writing Scripts November 27-December 3: Report December 4-10: Webpage and screencast