# Exploring Global Happiness: A Tableau Story (2015-2023)

## Project Overview

Understanding happiness is essential to improving well-being worldwide. This project leverages **Tableau Public** to analyze data from the **World Happiness Report (2015-2023)**, covering **150+ countries**. The goal is to identify key drivers of happiness and visualize how factors like GDP, social support, life expectancy, freedom, and generosity influence well-being globally.

## Dataset & Methodology

The dataset was sourced from the **World Happiness Report**, a public dataset from Kaggle. It contains yearly reports from **2015 to 2023**, measuring happiness scores based on factors such as:

- **GDP per capita**: Economic prosperity

- **Social support**: The presence of close relationships and support networks

- **Healthy life expectancy**: Longevity and quality of life

- **Freedom to make life choices**: Personal autonomy

- **Generosity**: Willingness to give and help others

- **Perception of corruption**: Trust in institutions

For analysis, I used **Tableau Public** to create **interactive dashboards** that help explore trends, correlations, and regional comparisons.

## Key Visualizations & Insights

### 1. Happiness Status Overview (2015-2023)

- **Regional Happiness Trends**: A highlighted table showcasing **average happiness scores by region**, allowing users to compare overall well-being across continents.

- **Top 10 Happiest & Least Happy Countries**: Interactive **maps** displaying the most and least happy countries using color-coded indicators. Tooltips reveal country details, region, and average happiness scores.

- **Dashboard Integration**: These visualizations are combined into a single dashboard titled **"Happiness Status Overview"**, which allows users to filter and interact with the data seamlessly.

## 2. Effect of GDP per Capita on Happiness Score

- **GDP & Happiness Trends**: A **multiline chart** visualizing the top 10 happiest countries' **GDP trends over the years**.

- **Happiness Score vs. GDP Per Capita**: A **line chart** showing how GDP and happiness correlate from **2015-2023**.

- **Dashboard for Economic Impact**: These charts are compiled into a **dashboard that allows users to explore the economic influences on happiness**.

## 3. Social & Well-Being Factors Impacting Happiness

- **Freedom & Social Support**: A **dual combination bar and line chart** illustrating the role of freedom and social support in happiness levels.

- **Generosity & Healthy Life Expectancy**: Another **dual-axis chart** displaying how generosity and life expectancy contribute to well-being.

- **Dashboard for Social Factors**: This section features an **interactive dashboard that highlights the most influential non-economic happiness drivers**.

## 4. Happiness Trends in the Least Happy Countries

- A similar analysis was conducted for the **least happy countries**, focusing on their **economic, social, and well-being factors**.

- **Key differences**: Many of these nations struggle with **low GDP, weak social structures, and high corruption perceptions**, leading to persistently lower happiness scores.

## Key Takeaways

📌 **Economic prosperity plays a role in happiness, but social and health factors have a stronger impact.** 📌 **Countries with high levels of social support, freedom, and low corruption tend to be the happiest.** 📌 **The happiness gap remains significant between the happiest and least happy nations, highlighting disparities in quality of life.**

## Project Link & Next Steps

🔗 **Explore the Interactive Dashboard Here:** https://public.tableau.com/shared/5RWMNZT6F?:display_count=n&:origin=viz_share_link

🔗 **GitHub Repository:** https://github.com/dishant21001/Exploring-Global-Happiness-A-Tableau-Story-2015-2023-.git

This project allowed me to apply **data visualization, analytics, and storytelling skills** to uncover meaningful insights from a decade of global happiness data. I plan to **expand this project by exploring machine learning models to predict future happiness trends** based on historical data.