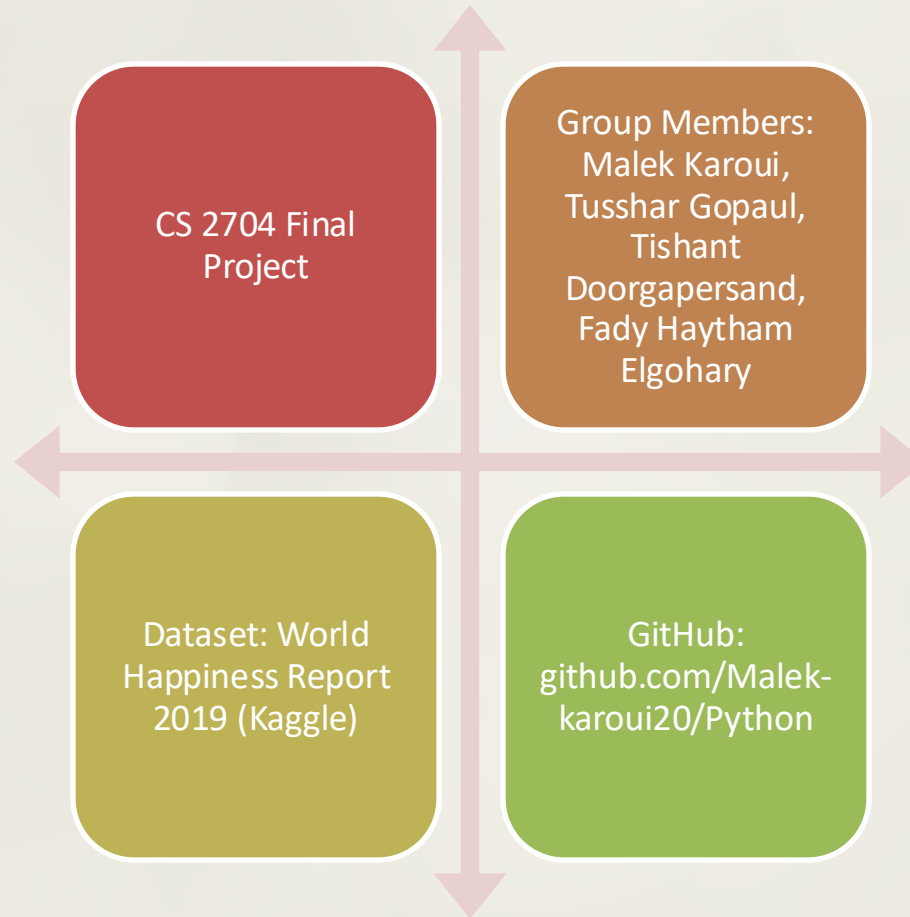


Does Money Buy Happiness? GDP vs. Happiness Score



Why GDP and Happiness?



"Happiness is a key measure of societal success, but what drives it?"



"GDP per capita reflects economic strength—does wealthier mean happier?"



Research Question: Is there a significant correlation between GDP per capita and national happiness scores?

World Happiness Report 2019



KEY VARIABLES:



- GDP PER CAPITA



- SCORE(HAPPINESS
SCORE)



- SOCIAL SUPPORT



- HEALTHY LIFE
EXPECTANCY



- FREEDOM TO
MAKE LIFE CHOICES

Our Hypothesis



"We hypothesize that GDP per capita has a significant positive correlation with Happiness Score."



Rationale: Wealth enables better healthcare, education, infrastructure.



Caveat: Is money everything? We'll test it.

How We Tested It

Descriptive statistics

Scatter plot (GDP vs. Happiness)

Correlation heatmap

Linear regression

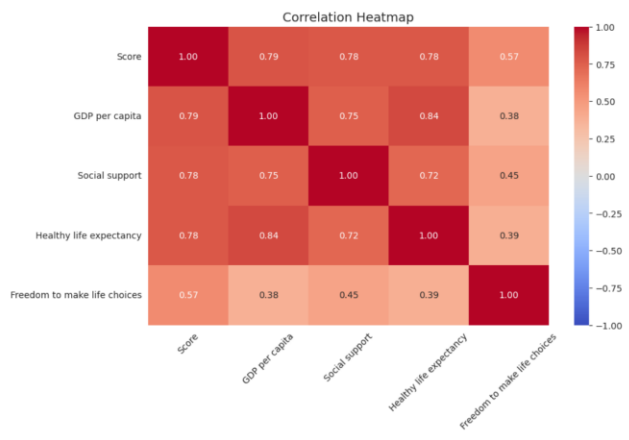
Pearson's r calculation

GDP vs. Happiness



- **Strong Positive Correlation:**
 - "As GDP increases, Happiness Score tends to rise ($r = 0.79$, $p < 0.001$)."
 - Regression equation: **Score = 3.40 + 2.22×GDP**

Key Findings



- **GDP & Happiness:**
 - Pearson's $r = 0.79$ (very strong positive correlation).
 - $R^2 = 0.63 \rightarrow$ GDP explains **63%** of happiness variance.
- **Other Predictors:**
 - Social Support ($r = 0.72$).
 - Freedom ($r = 0.57$).

What Does This Mean?



Implications:

Economic growth **may** boost happiness, but isn't the only factor.

Social policies (e.g., healthcare, freedom) also matter.



Limitations:

Correlation \neq Causation: Wealthier nations may invest more in well-being.

Cultural bias: Happiness is self-reported.

Final Takeaways

GDP matters, but explains ~63% of happiness.

Policy Insights:

- Prioritize **both** economic growth **and** social programs.

Future Work:

- Compare regions (e.g., Nordic vs. developing nations).

Questions?

- "What other factors do YOU think influence happiness?"
- QR code for github Repo

