

POWER BI REINFORCEMENT PROJECT : WORLD HAPPINESS REPORT

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DA-DS

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DATASET OVERVIEW :

Source: Kaggle

Description:

Data on happiness rankings across countries, with factors such as GDP, social support, life expectancy, positive and negative effects, life ladder and so on.

OBJECTIVE:

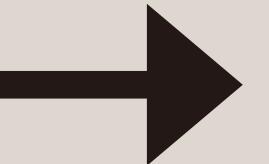
Analyze global happiness using factors like

- Life ladder
- Generosity
- Government

DATA CLEANING AND TRANSFORMATION:

- Removed duplicates and irrelevant data
- Handling missing values
- Standardized data types and formats

A ^B _C	Country name	1 ² ₃	Year	1.2	Life Ladder
	Afghanistan		2008		3.723589897
	Afghanistan		2009		4.401778221
	Afghanistan		2010		4.75838089
	Afghanistan		2011		3.83171916
	Afghanistan		2012		3.782937527
	Afghanistan		2013		3.572100401
	Afghanistan		2014		3.130895615
	Afghanistan		2015		3.982854605
	Afghanistan		2016		4.220168591
	Afghanistan		2017		2.66171813
	Afghanistan		2018		2.694303274
	Afghanistan		2019		2.375091791
	Afghanistan		2021		2.436034441
	Albania		2007		4.634251595
	Albania		2009		5.485469818
	Albania		2010		5.268936634
	Albania		2011		5.867421627



A ^B _C	Country name	1 ² ₃	Year	\$	Life Ladder	\$	Log GDP per capita
	Valid	100%		Valid	100%	Valid	100%
	Error	0%		Error	0%	Error	0%
	Empty	0%		Empty	0%	Empty	0%
	Afghanistan		2008		3.72		7.30
	Afghanistan		2009		4.40		7.47
	Afghanistan		2010		4.76		7.58
	Afghanistan		2011		3.83		7.55
	Afghanistan		2012		3.78		7.64
	Afghanistan		2013		3.57		7.66
	Afghanistan		2014		3.13		7.65
	Afghanistan		2015		3.98		7.63
	Afghanistan		2016		4.22		7.63
	Afghanistan		2017		2.66		7.63
	Afghanistan		2018		2.69		7.62
	Afghanistan		2019		2.38		7.63
	Afghanistan		2021		2.44		7.63
	Albania		2007		4.63		9.12
	Albania		2009		5.49		9.24

DAX Functions:

```
Avg_GDP_per_Capita = AVERAGE('World Happiness Report'[Log GDP per capita])
```

```
Happ_St_Dev = STDEVX.P('World Happiness Report','World Happiness Report'[Life Ladder])
```

```
Avg_Happ_Score = AVERAGE('World Happiness Report'[Life Ladder])
```

```
Max_Happ_Score = MAX('World Happiness Report'[Life Ladder])
```

```
Avg_Social_Support = AVERAGE('World Happiness Report'[Social support])
```

```
Happ_Rank = RANKX(ALL('World Happiness Report'[Country name]),[Avg_Happ_Score],,DESC)
```

```
Min_Happ_Score = MIN('World Happiness Report'[Life Ladder])
```

```
High_free_Country = CALCULATE(MAX('World Happiness Report'[Freedom to make life choices]))
```

```
Avg_Life_Exp = AVERAGE('World Happiness Report'[Healthy life expectancy at birth])
```

DASHBOARD:

WORLD HAPPINESS REPORT

TOTAL COUNTRIES

166

AVERAGE HAPPINESS SCORE

5.47

AVERAGE GDP per CAPITA

9.37

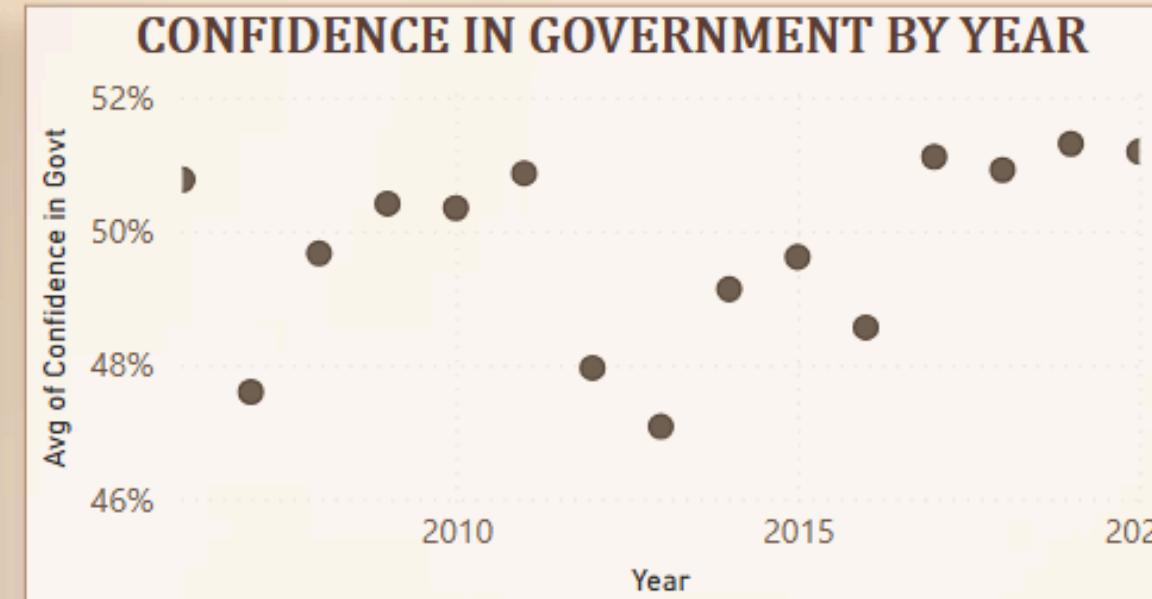
AVERAGE SOCIAL SUPPORT

0.81

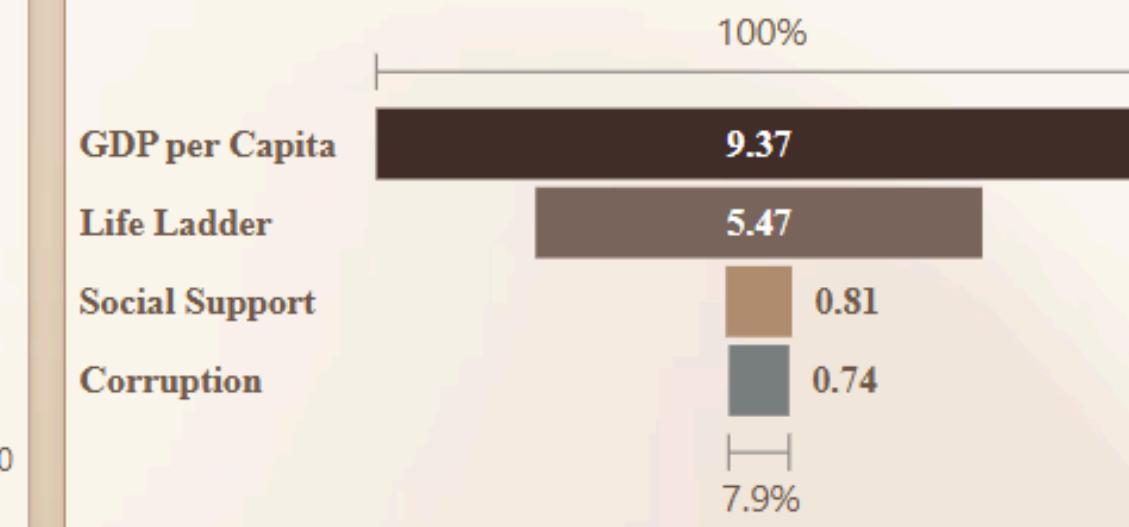
TOP 10 HAPPIEST COUNTRIES DEPENDING ON LIFE LADDER



CONFIDENCE IN GOVERNMENT BY YEAR



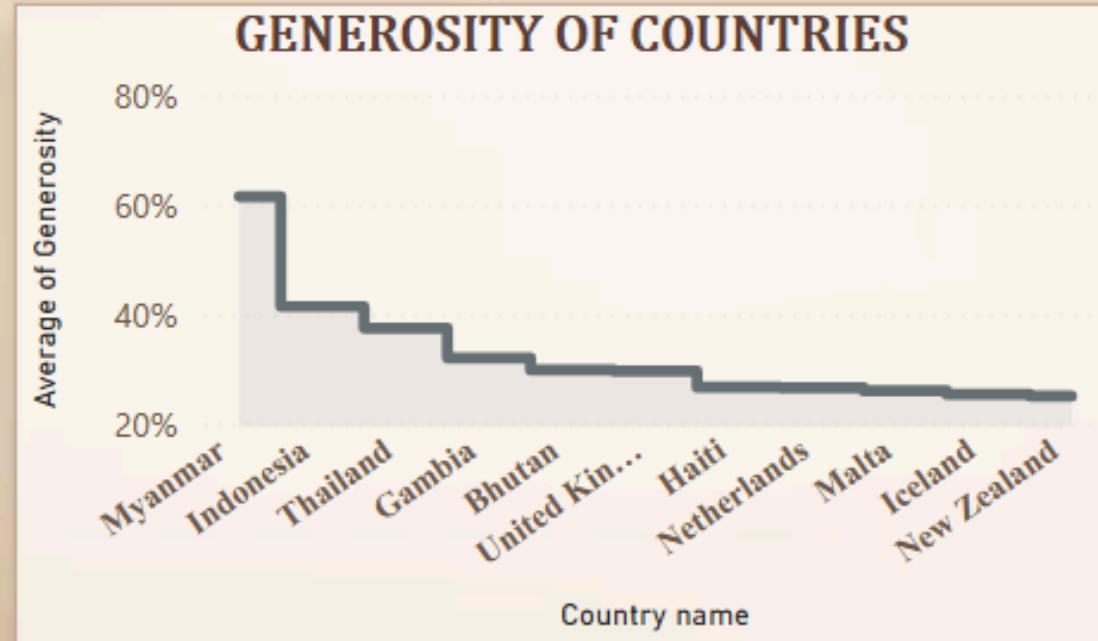
HAPPINESS FACTORS



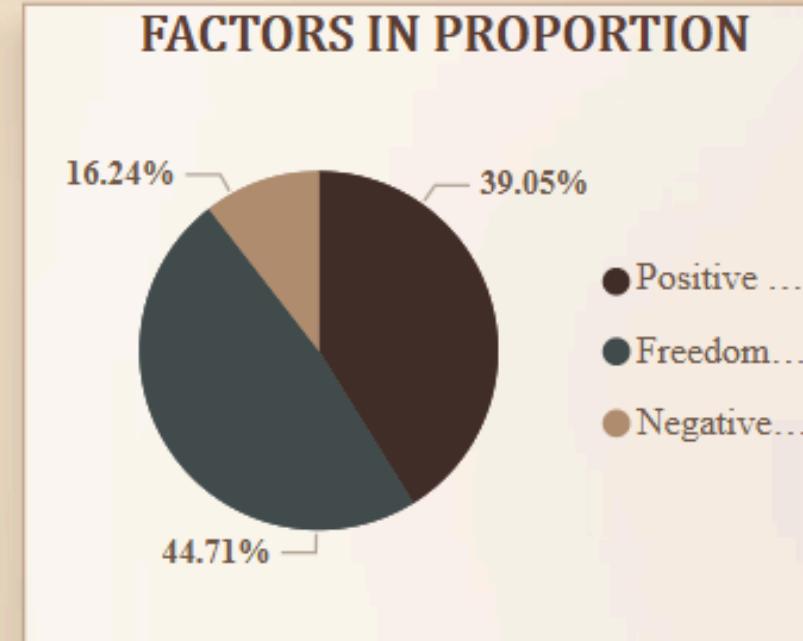
HAPPINESS SCORE



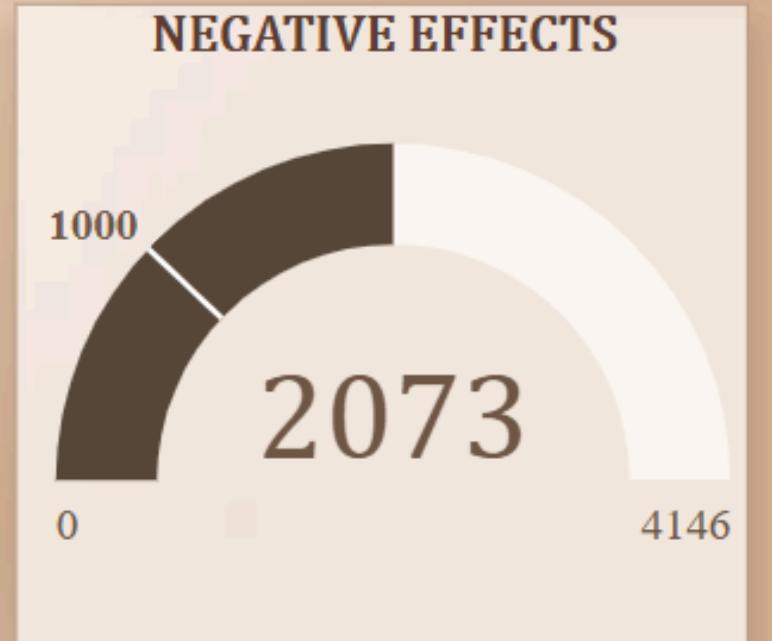
GENEROSITY OF COUNTRIES



FACTORS IN PROPORTION



NEGATIVE EFFECTS



KEY INSIGHTS AND RECOMMENDATIONS:

- Summary Statistics:
 - a. Total Countries - **166**
 - b. Average Happiness Score - **5.47**
- GDP per Capita and Life ladder are top contributors to happiness
- Western countries consistently top the happiness index
- Negative factors still prominent - suggesting a global need for mental health and emotional support initiatives
- Countries should invest in well-being infrastructure and reduce corruption thus reducing the negative impacts.

CONCLUSION:

- Happiness is multifactorial. It is influenced by economic, emotional and social factors
- Generosity isn't always linked to wealth: some countries like Myanmar and Indonesia having low GDP still ranked high in generosity
- Visual analytics helps understand global patterns and disparities

Thank You