World Happiness Analysis Report

**Introduction**

In this Report, we’ll have a look at whether countries whose governments adopt open policies with respect to data sharing are the same countries that score highly on the world happiness index. Let’s hypothesize that the two are positively correlated.

The two datasets shared on Kaggle that I’m going to use are:

**Open Knowledge International’s** [**2015 Global Open Data Index**](https://www.kaggle.com/okfn/open-data)

The Global Open Data Index is an annual effort to measure the state of open government data around the world. The crowdsourced survey is designed to assess the openness of specific government datasets according to the Open Definition.

**Sustainable Development Solutions Network’s** [**World Happiness Report**](https://www.kaggle.com/unsdsn/world-happiness) **from 2016**

The World Happiness Report is a landmark survey of the state of global happiness. The World Happiness Report 2016 Update, which ranks 156 countries by their happiness levels, was released in Rome in advance of UN World Happiness Day, March 20th. The reports review the state of happiness in the world today and show how the new science of happiness explains personal and national variations in happiness. They reflect a new worldwide demand for more attention to happiness as a criteria for government policy.

**Happiness Index Analysis:**

# Introducion:

In this,we are going to analyse happiness index of countries across globe with various factors like health,GDP,family,freedom,trust etc for the year 2015,2016 and 2017.We try to answer questions like What is the state of open data around the world? Which countries or regions score the highest in all the data categories? Did any countries receive lower open data scores than in previous years?

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The happiness scores and rankings use data from the Gallup World Poll. The scores are based on answers to the main life evaluation question asked in the poll.

Acknowledgement: A major source of inspiration is this kernal by Megan. <https://www.kaggle.com/mrisdal/happiness-and-open-data/notebook>

**Questions Framed :**

- 1st part - Is happiness correlated with open data?.

- 2nd part - Are open countries happy countries?.

- 3rd part - Happiness Trends

- 4th part - What other measures are correlated with “Openness”?

- 5th part - Which factor does the happiness score depends upon ?

We build a linear regression model with the score as y axis and rest of the variables like economy,life expectancy,freedom,corruption etc as x.

Based on the graph,it may be observed that the countries which have ranked within 10 places tend to stay in that group albeit a small change in their position triggered by some factors.

# Conclusion

This mini project utilises linear regression model to find out the variables responsible for happiness scores.Interesting insight is that the score value depend on variables - GDP per capita,family,life expectancy,freedom for all the three years.

Another interesting finding is that there are no surprises seen in the ranking with top 10 ranks are concerned.Keeping 2015 as a base when we look at 2016 and 2017 rankings the countries rank differ only by maximum of +/- 2 ranks.