WHR - 10 Questions and answers

- What factors contribute most to happiness?
  GPD per capita, Health and life expectancy, Freedom of choice are the top 3 factors contributing to the highest happiness scores.

- How do the factors average over the years?
  The years 2015 and 2019 had higher happiness scores in factors like GDP and Family support. The year 2016 seems to have had lesser average scores in most factors.

- What are the top happiest countries?
  In 2019, Finland, Denmark, and Norway lead with highest happiness scores of more than 7.5. Iceland, Netherlands, Switzerland, and Sweden follow suit with scores still around 7.5.

- What are the least happy countries?
  In 2019, South Sudan has the least happiness score of less than 3 making it the least happy country. Following it are Central African Republic, Afghanistan, Tanzania with a little above 3 for happiness score, still making them some of the least happy countries.

- What is the relationship between happiness and economic production?
  Economic production or GPD per capita or simply financial growth of the country is the biggest factor that significantly affected the Happiness score of a country.

- What is the relationship between happiness and social support?

Societal support plays an important role in a country's general happiness. This is no surprise since humans need to feel they belong in society to be content and happy.

- What is the relationship between happiness and freedom?
   Freedom to make life choices is one of the top 4 factors impacting the happiness score of a country.

- What is the relationship between happiness and absence of corruption?
   Surprisingly, absence of corruption is only the 5th factor impacting the happiness score. In another perspective, if there is financial growth, good health, and freedom, then corruption or the absence of it may not be significant.

- What modeling technique could help the most in predicting happiness scores?
   Given the modeling accuracy scores, Bayesian Linear and Linear Regression modeling techniques are most useful in prediction.

- What assumptions were made in the analysis of this data?
   - The first assumption is that the dataset sample is significant enough to determine the happiness score of a country. According to the World Happiness report, about 1000 entries per country were considered for calculating the score.
   - The Second assumption is that the factors listed indeed impact the overall happiness/well-being of a country. While they do have significant weightage, happiness is a complex emotion that may depend on multitude of factors that have not been considered in the survey.