

Analyzing World Happiness Report based on countries and Regions

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Abstract

Objective:

In this project, we perform a detailed data analysis on the World Happiness Report with its relation to Geographical Locations. We perform some extensive data analysis and visualisation.

Methods:

For this analysis data for the years 2015 - 2020 was used from the following link:

For 2015-20 : <https://www.kaggle.com/unsdsn/world-happiness>

For 2020 : <https://www.kaggle.com/moradnejad/world-happiness-report-2015-2020?select=2018.csv>

As the csv files has various numbers and names of columns, some columns are dropped and column names changed. A final large data frame was created by concatenating all the csv file and regional indicator for each country and year columns added to the data frame.

Graphical EDA is done, which examines data set in order to summarise their statistical characteristics by focusing on the factors, such as measures 'GDP per Capita', 'Social support', 'Healthy Life Expectancy', 'Freedom', 'Perception of Corruption' and 'Generosity'.

Dashboards with Tableau were created by filled world map of countries according to their Happiness Rank in the year 2020. Since this project mainly focus on geographical locations countries are categorised into subregions. A bar chart shows the Happiness score for top 20 countries in 2020. And also changes in Happiness Score between years 2015 and 2020 was shown. Here one can see a country improved its Happiness Score despite Covid Pandemic or decreased. This analysis will lead to further vast analysis based on Covid effects on Happiness Score.