

Portfolio Project

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World Happiness Score Project:

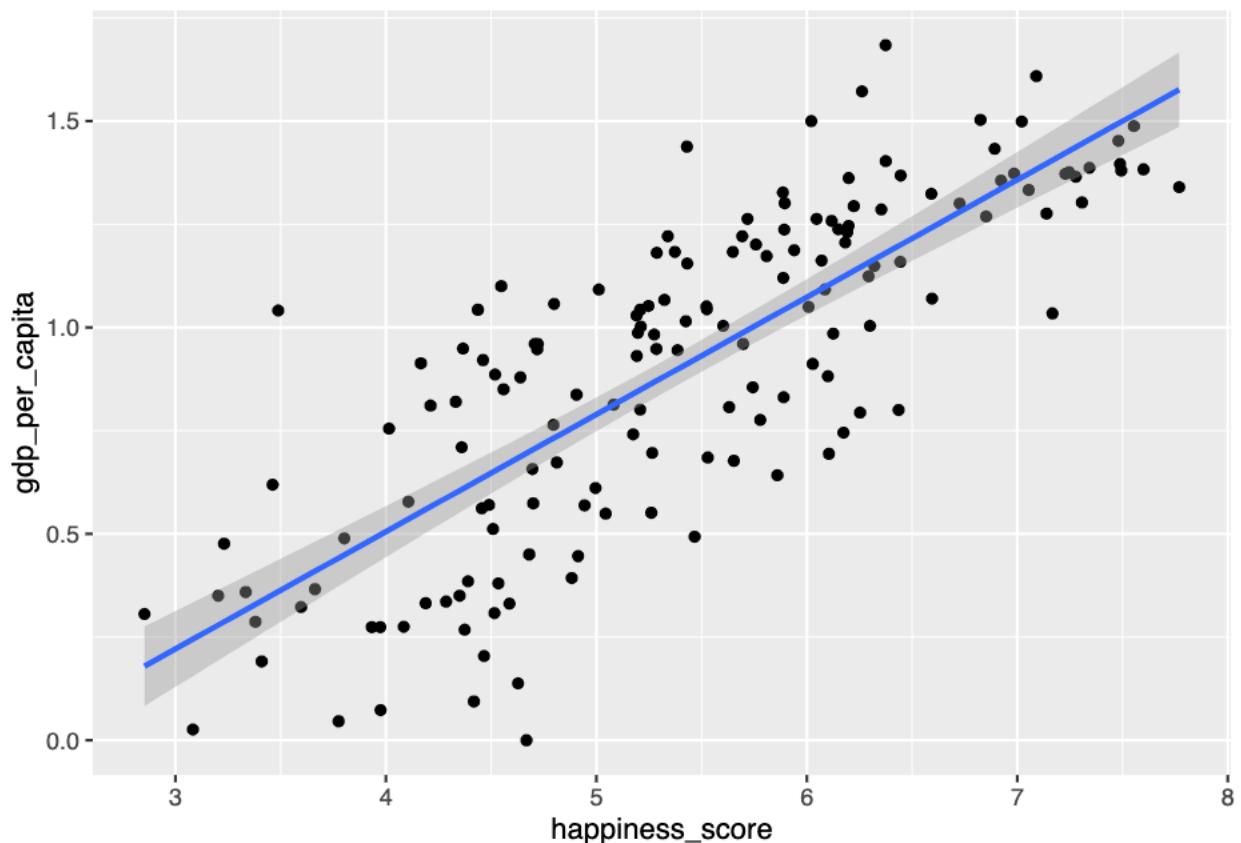
Is happiness correlated to a persons living standards and productivity? I posed this question as a way to answer a series of questions that attribute to why people in various countries would be happy or not? The first of which being, is GDP per Capita correlated with a happiness score? More importantly does a higher gdp per capita score lead to a higher happiness score? As well as does a lower gdp per capita equal to a lower happiness score?

```
library(ggplot2)
`2019_happiness_project` <- read.csv("2019_happiness_project.csv")
summary(`2019_happiness_project`)

##   overall_rank    country_or_region  happiness_score  gdp_per_capita
##   Min.    : 1.00    Length:156          Min.    :2.853    Min.    :0.0000
##   1st Qu.: 39.75   Class :character   1st Qu.:4.545    1st Qu.:0.6028
##   Median  : 78.50   Mode  :character   Median :5.380    Median :0.9600
##   Mean    : 78.50                    Mean    :5.407    Mean    :0.9051
##   3rd Qu.:117.25                    3rd Qu.:6.184    3rd Qu.:1.2325
##   Max.   :156.00                    Max.   :7.769    Max.   :1.6840
##   social_support  healthy_life_expectancy freedom_score   generosity_score
##   Min.    :0.000    Min.    :0.0000    Min.    :0.0000    Min.    :0.0000
##   1st Qu.:1.056    1st Qu.:0.5477    1st Qu.:0.3080    1st Qu.:0.1087
##   Median  :1.272    Median :0.7890    Median :0.4170    Median :0.1775
##   Mean    :1.209    Mean    :0.7252    Mean    :0.3926    Mean    :0.1848
##   3rd Qu.:1.452    3rd Qu.:0.8818    3rd Qu.:0.5072    3rd Qu.:0.2482
##   Max.   :1.624    Max.   :1.1410    Max.   :0.6310    Max.   :0.5660
##   corruption_score
##   Min.    :0.0000
##   1st Qu.:0.0470
##   Median  :0.0855
##   Mean    :0.1106
##   3rd Qu.:0.1412
##   Max.   :0.4530

ggplot(data = `2019_happiness_project`) +
  geom_point(aes(x=happiness_score,y=gdp_per_capita)) +
  geom_smooth(method = "lm",aes(x=happiness_score,y=gdp_per_capita))

## `geom_smooth()` using formula 'y ~ x'
```



Based on my findings there is a positive correlation between the GDP per Capita of countries and their Happiness Score. Therefore, the higher the GDP per Capita the higher the Happiness Score would be as well as the lower the Gdp per Capita score the lower the countries happiness score will be, based on this graph.