

# Portfolio Project

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## World Happiness Score Project:

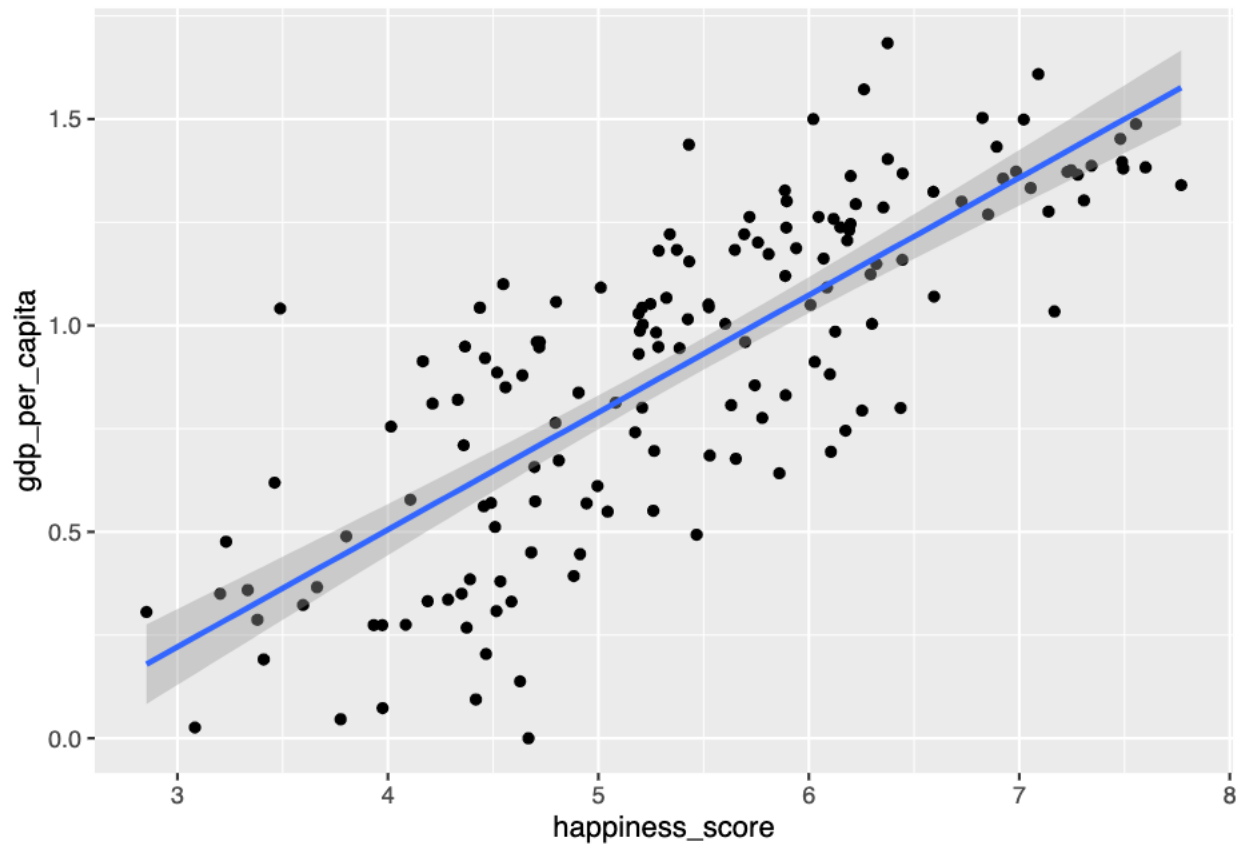
Is happiness correlated to a persons living standards and productivity? I posed this question as a way to answer a series of questions that attribute to why people in various countries would be happy or not? The first of which being, is GDP per Capita correlated with a happiness score? More importantly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