

# Predicting World Happiness

Maximilian Grieser, Bryan Lopez, Matthew Oey

School of Engineering, University of California, Santa Cruz

## Introduction

With happiness being a subjective concept, everyone everywhere has different forms of happiness and that can be influenced by various factors.

We are going to explore how economy can influence a country's value of a happiness.

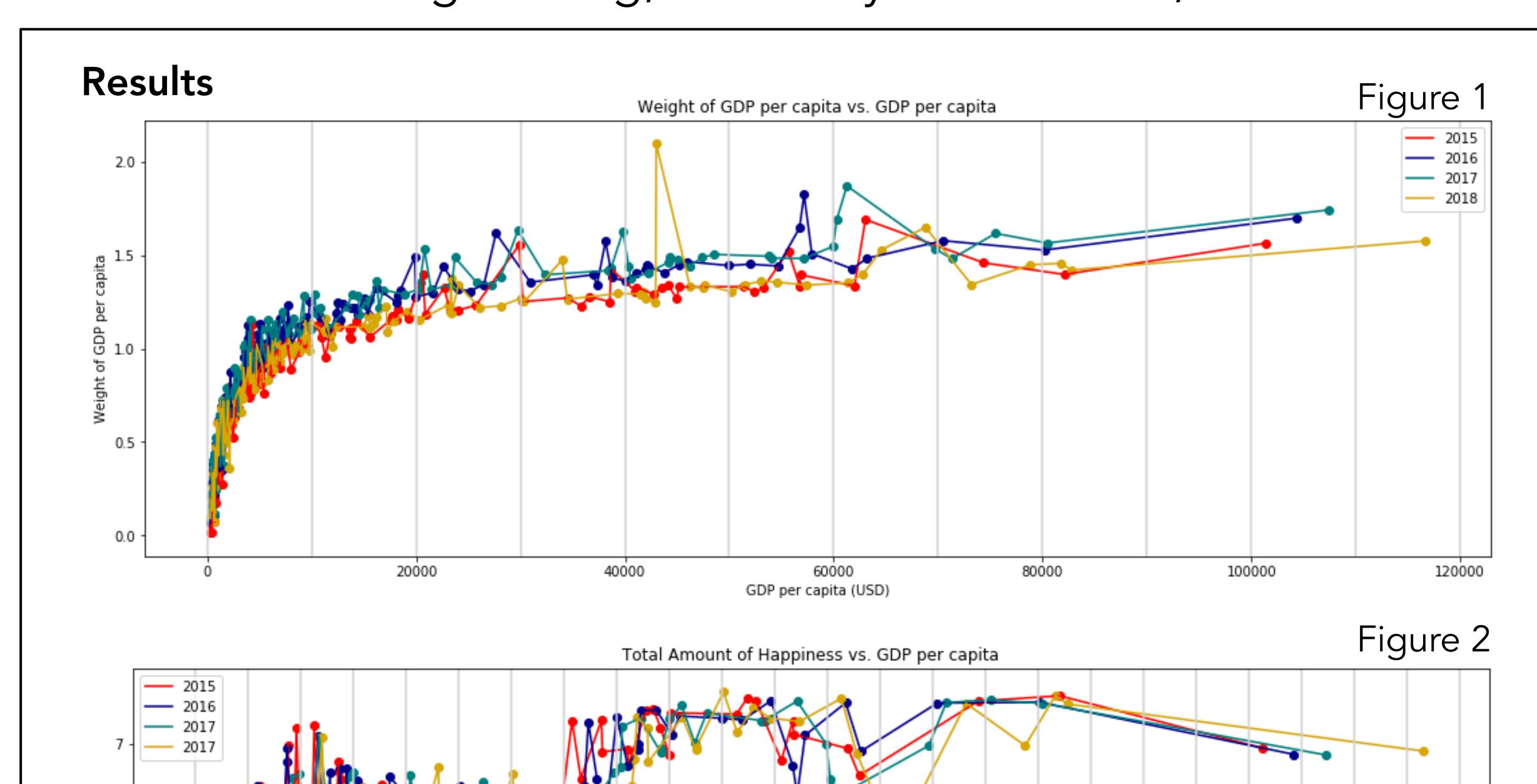
## Materials and methods

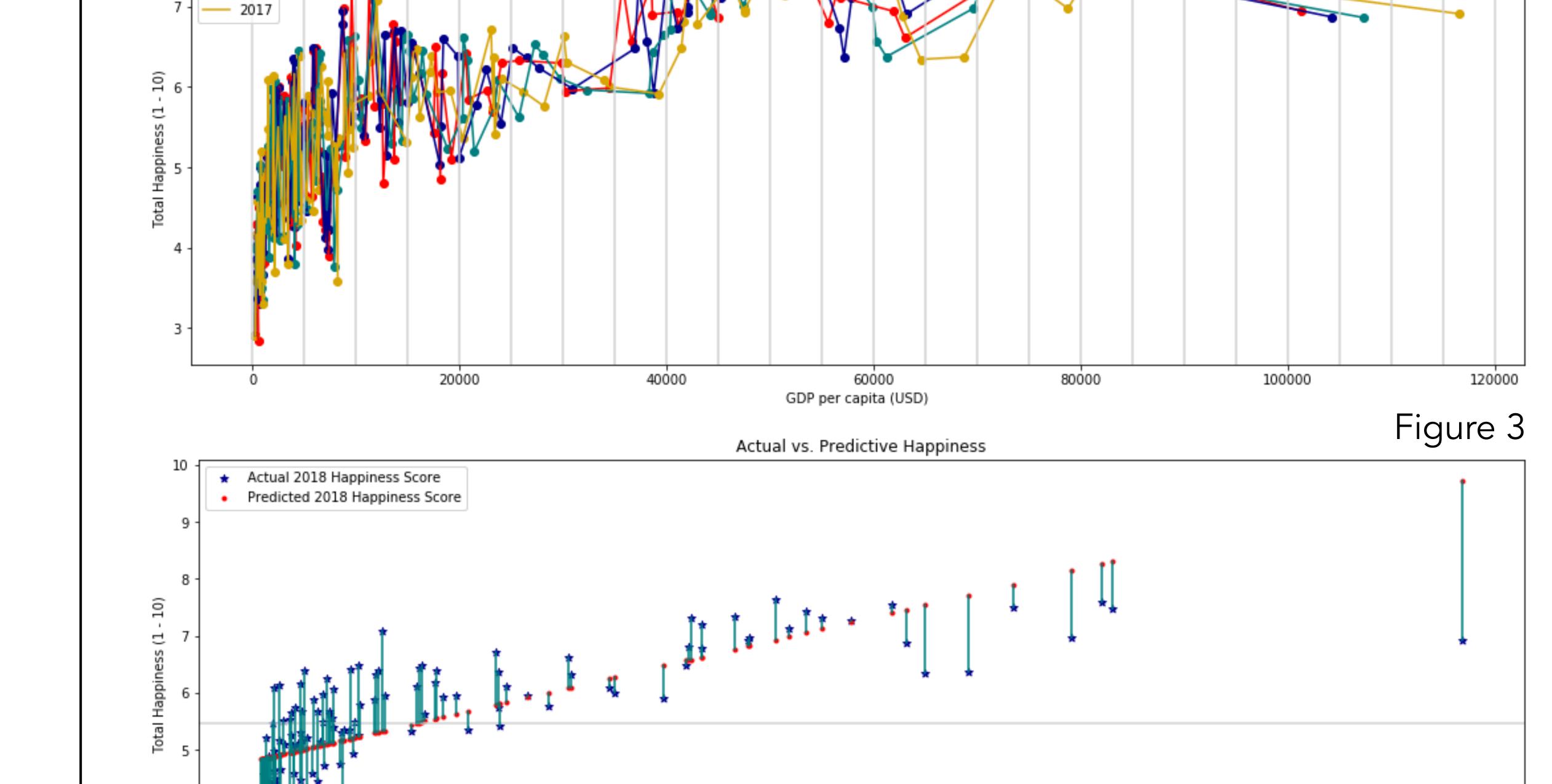
We used the GDP and World Happiness Report for our datasets.

Our datasets had to be cleaned in order to have consistent countries and country names.

We plotted GDP per capita with happiness and GDP weight.

Finally, we trained a linear regression model to predict 2018 happiness values.





GDP per capita (USD)

20000

40000

Conclusions

\*GDP Weight = How much a country

GDP weight and GDP per

contributes GDP to their overall happiness

capita increase until reaching

\$80,000, in which then GDP

Countries with a GDP per

significantly different

GDP weight.

Figure 3

capita lower than \$20,000 have

perspectives on how they see

Countries below and above the

threshold, calculated by the

happier, respectively. Our

model predicted the 2018's

happiness scores given the

threshold with a 77% accuracy.

means of happiness per year,

are considered unhappier and

weight decreases

Figure 1

Figure 2

GDP Per Capita:

https://data.worldbank.org/indicator/NY.GDP.PCAP.CD

World Happiness Report: https://www.kaggle.com/unsdsn/world-happiness

## Datasets Used

100000

120000

80000