

DEPRESSION AND SOCIAL MEDIA

Data Project 09 | 2019 Laura Würz

A Prevalent Problem

OVER 300 MILLION

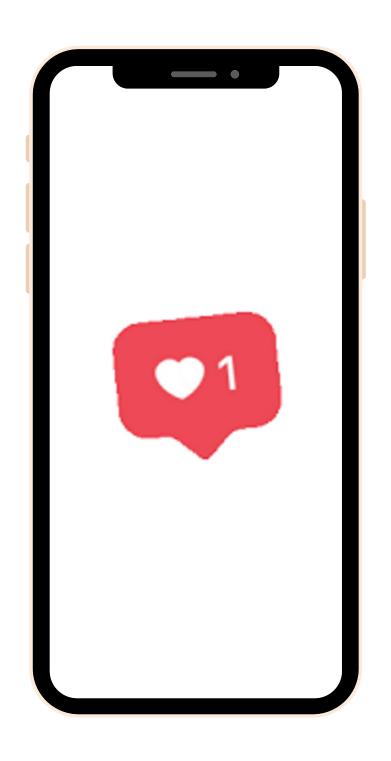
PEOPLE OF ALL AGES SUFFER FROM DEPRESSION

*WORLD HEALTH ORGANIZATION

RESEARCH QUESTION

PREDICTING ANTIDEPRESSANTS

CONSUMPTION WITH SOCIAL MEDIA USE
IN EUROPE



DEPRESSION AND SOCIAL MEDIA

HOW CAN WE USE THE FINDINGS?

- PHARMA SALESFORECASTING/ MARKETING
- GOVERNMENT
- HEALTH APPS ETC.





TRANSLATE

VISUALIZE | CONTEXT

DATA

DATASET 1

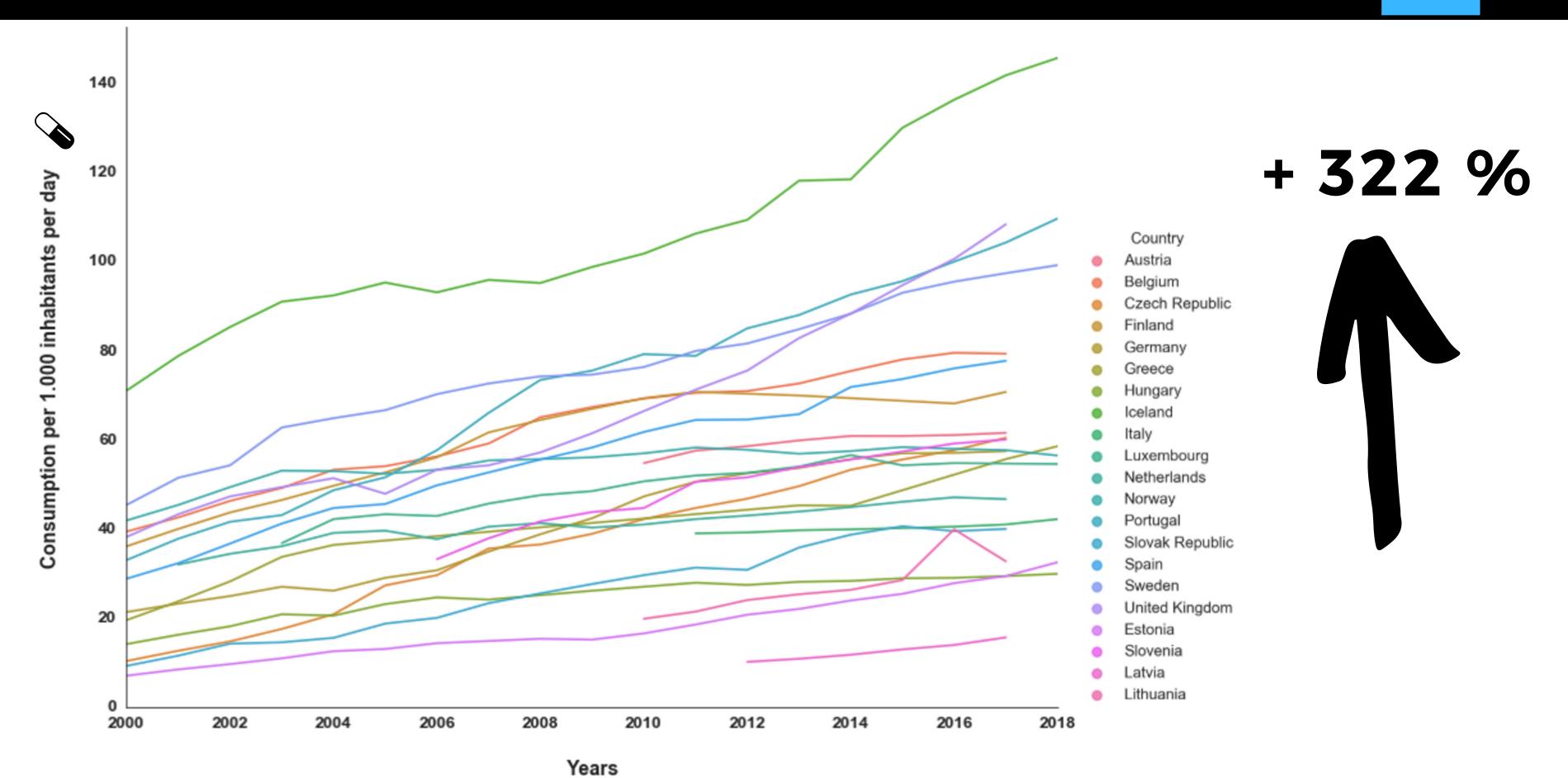
ANTIDEPRESSANT
CONSUMPTION
BY COUNTRY

DATASET 2

SOCIAL MEDIA
USE
BY COUNTRY

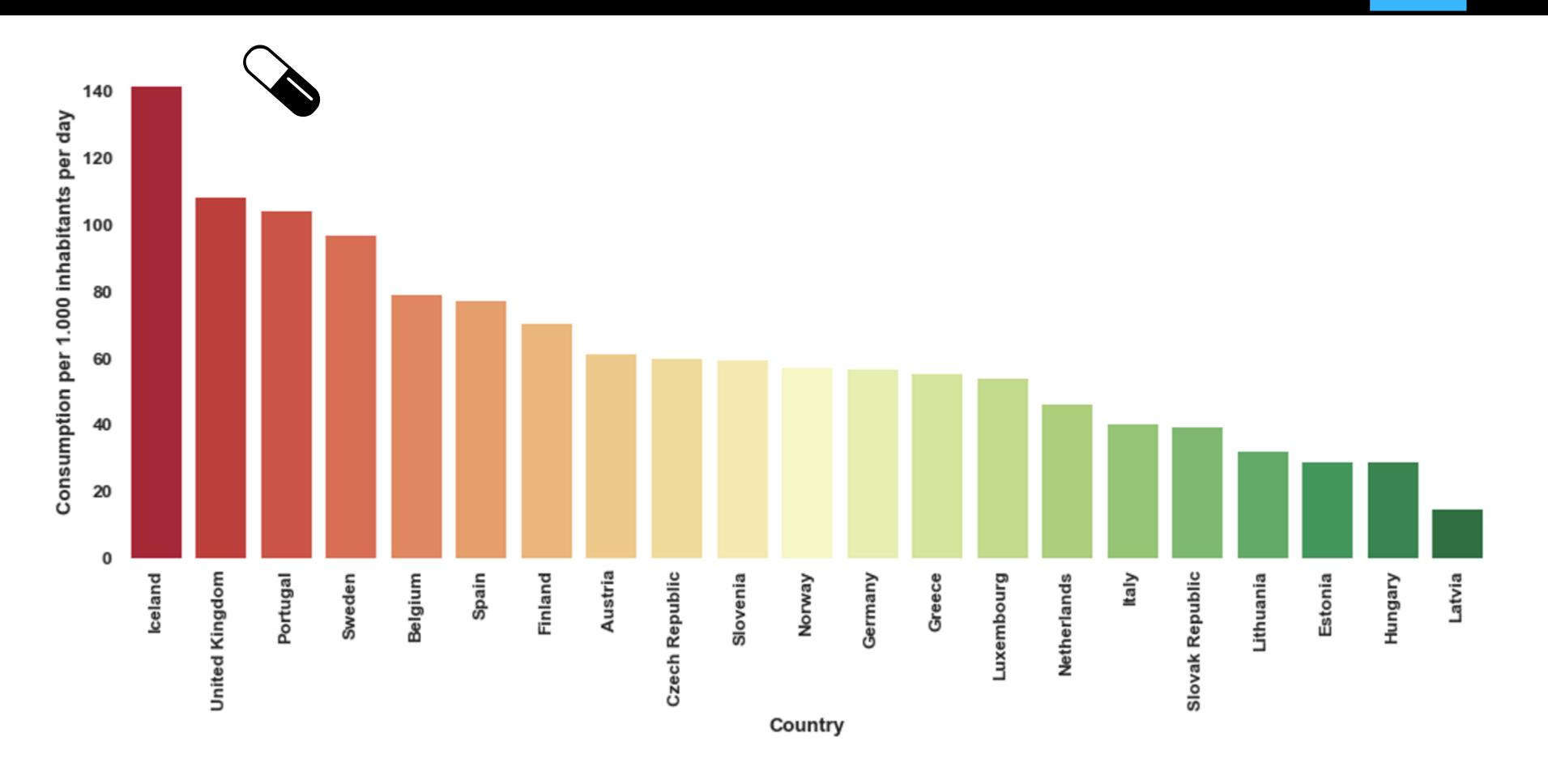
TIMELINE ANTIDEPRESSANTS CONSUMPTION BY COUNTRY





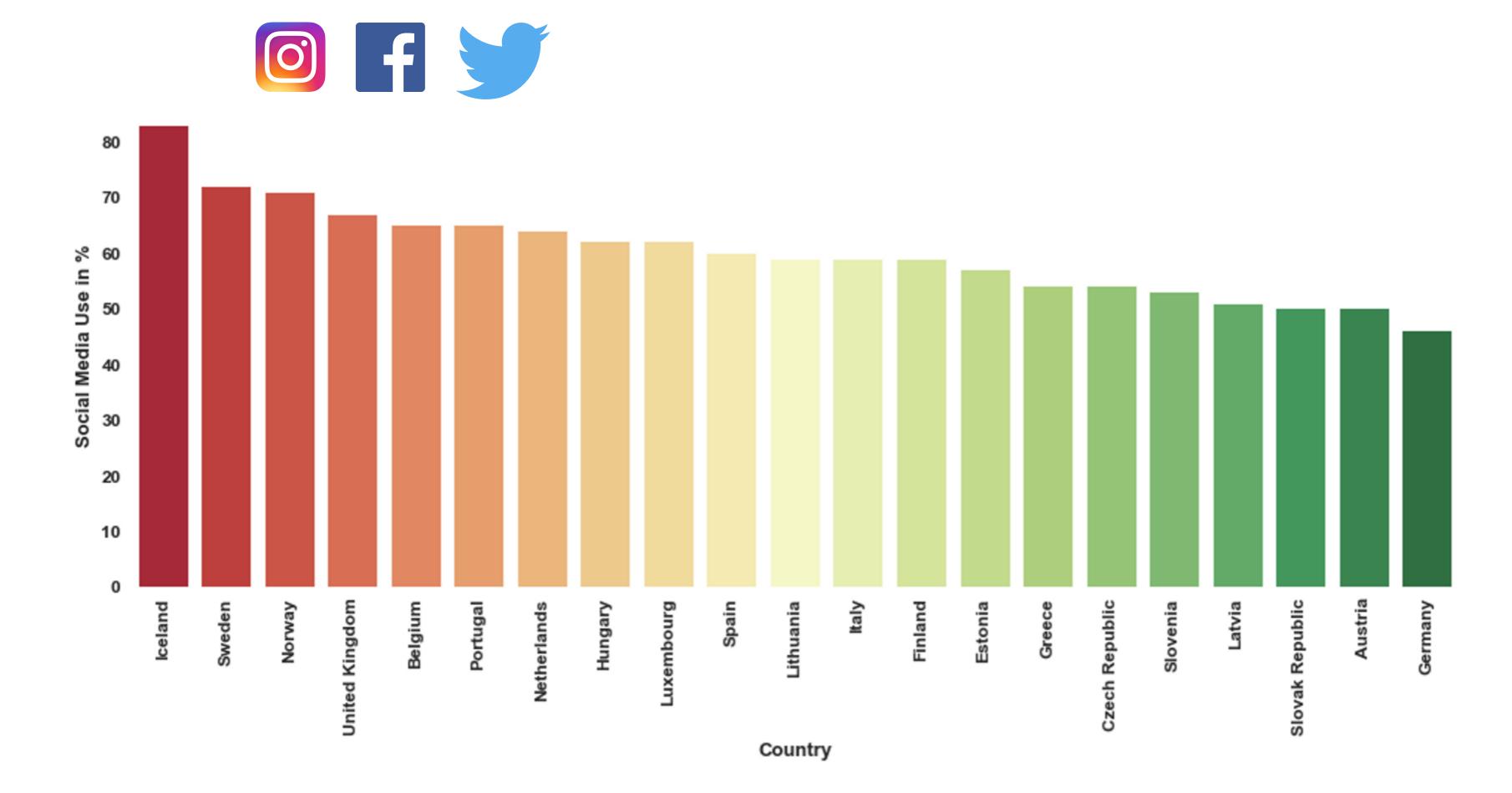
ANTIDEPRESSANTS CONSUMPTION BY COUNTRY 2017





SOCIAL MEDIA USE BY COUNTRY 2019





DATA

DATASET 1

ANTIDEPRESSANT
CONSUMPTION
BY COUNTRY

DATASET 2

SOCIAL MEDIA
USE
BY COUNTRY

DATA

DATASET 1

ANTIDEPRESSANT
CONSUMPTION
BY COUNTRY

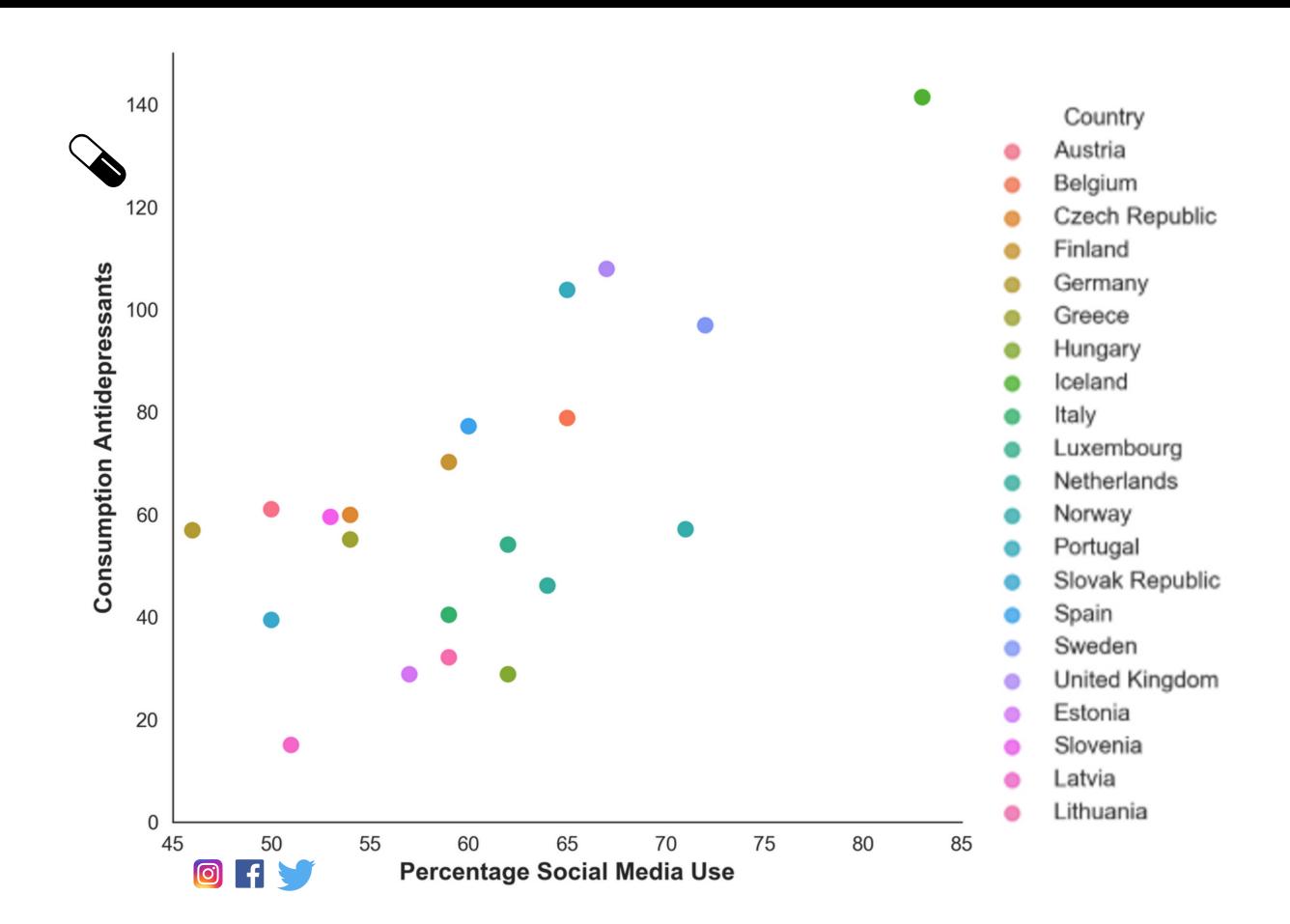
DATASET 2



SOCIAL MEDIA
USE
BY COUNTRY

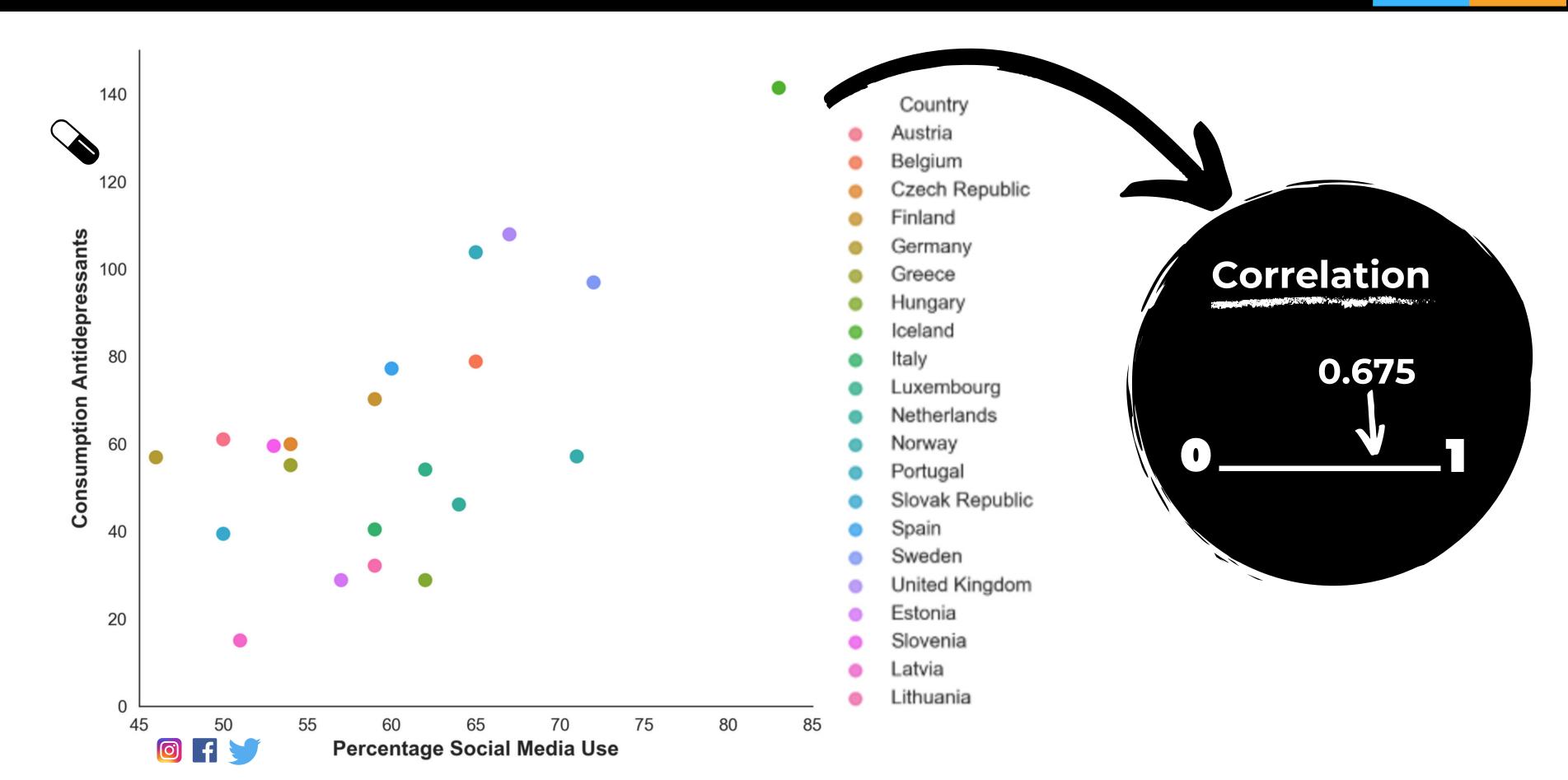
ANTIDEPRESSANTS & SOCIAL MEDIA



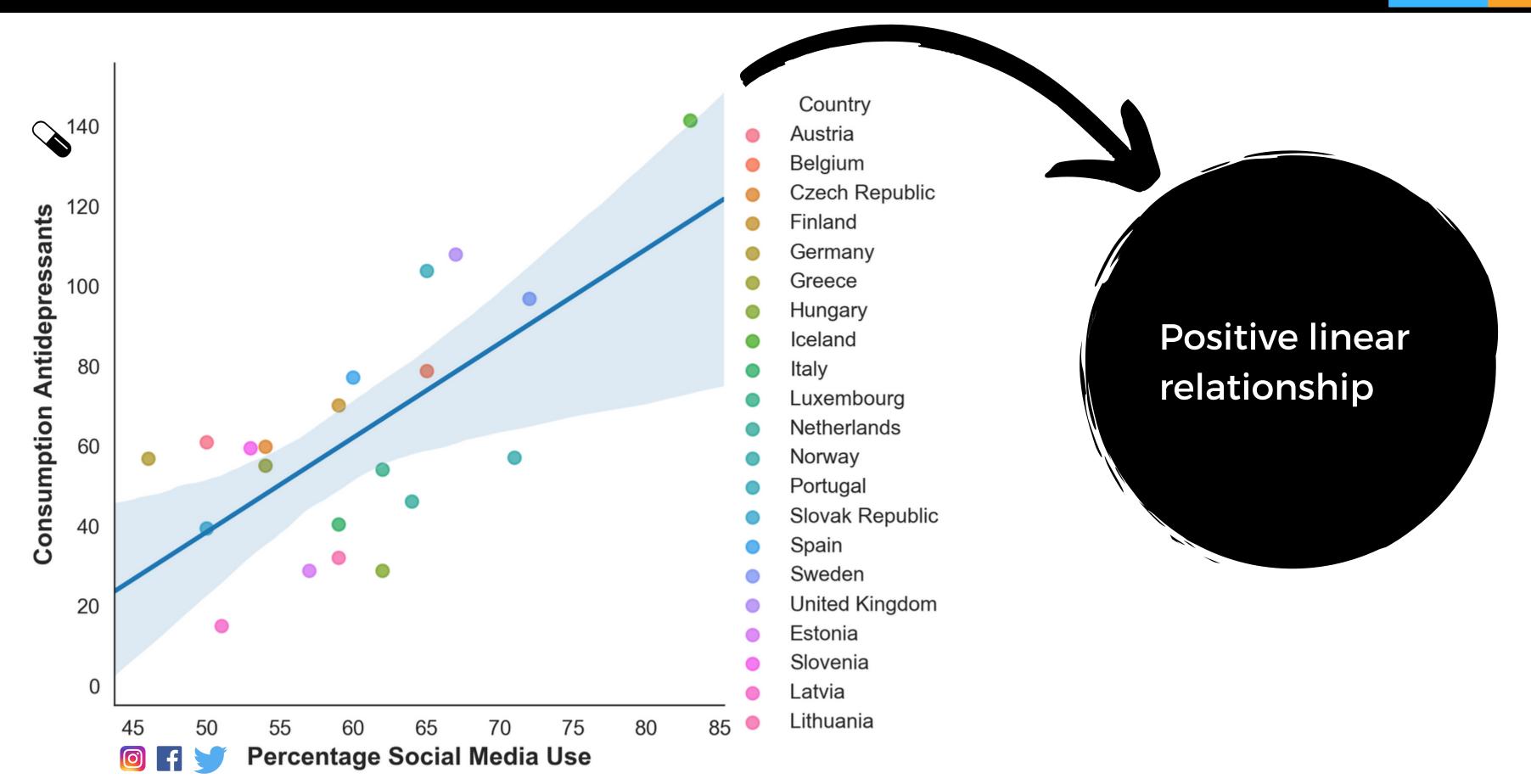


ANTIDEPRESSANTS & SOCIAL MEDIA

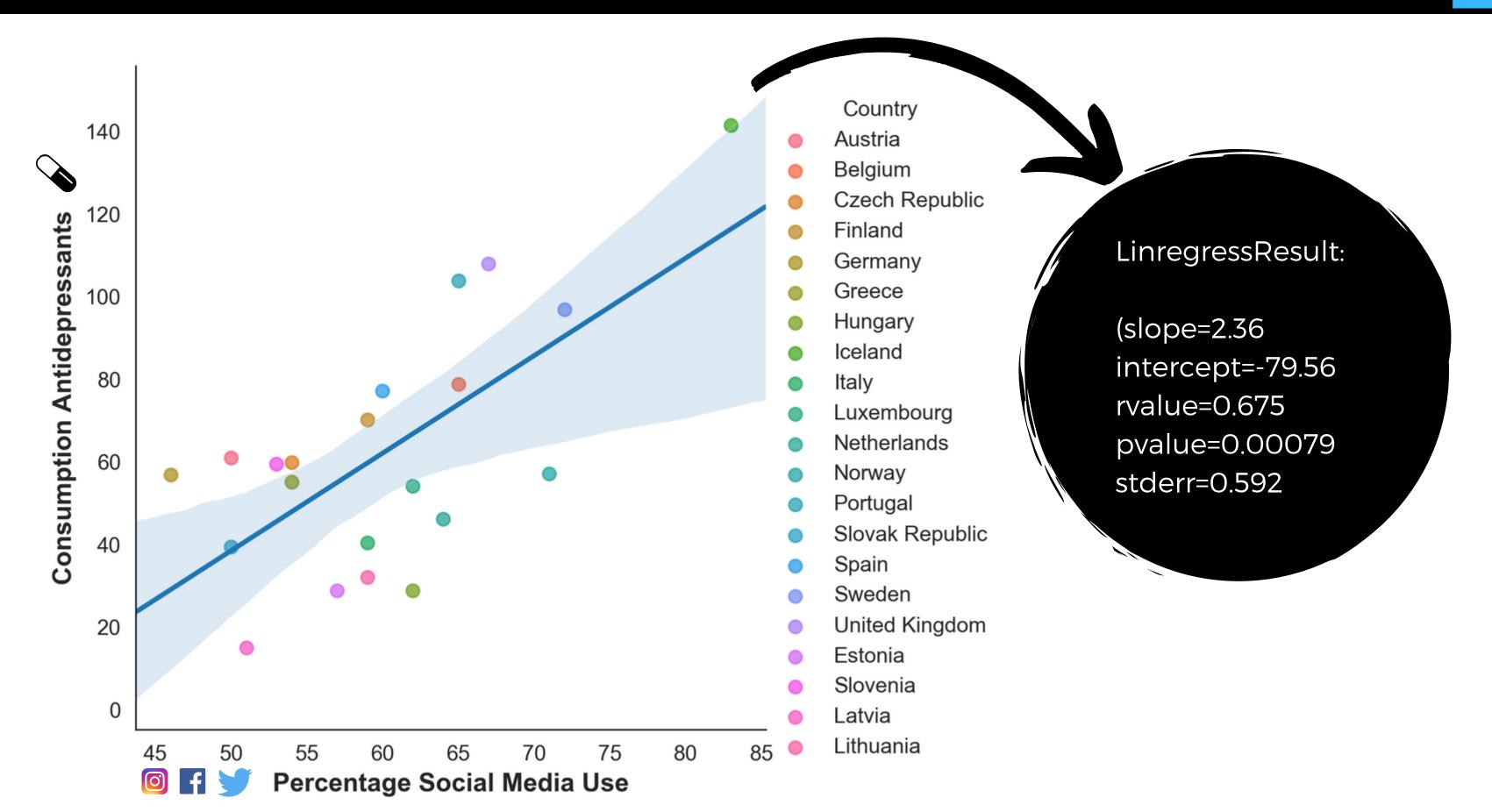




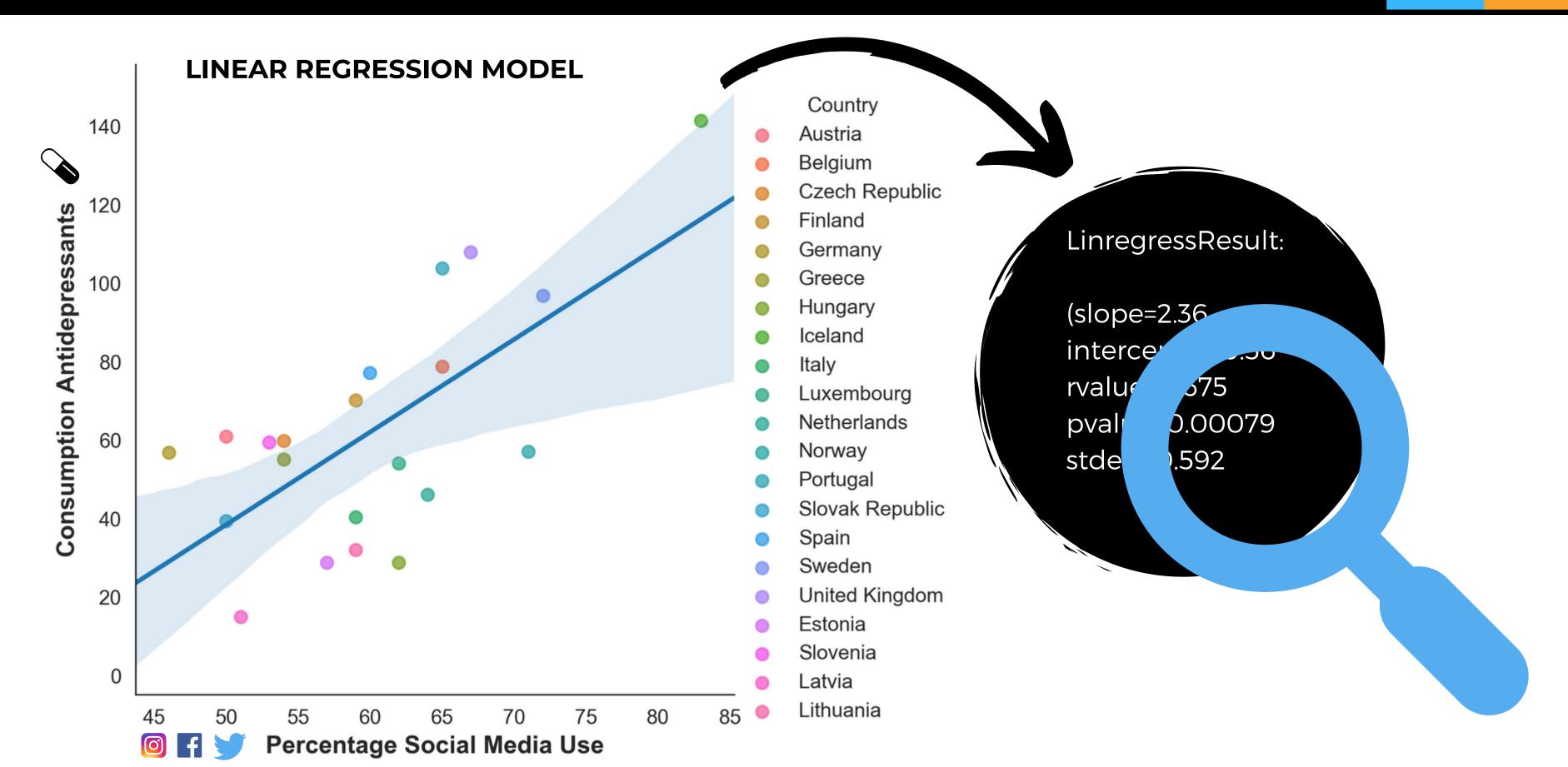
















(slope=2.36,

intercept=-79.56,

rvalue=0.675

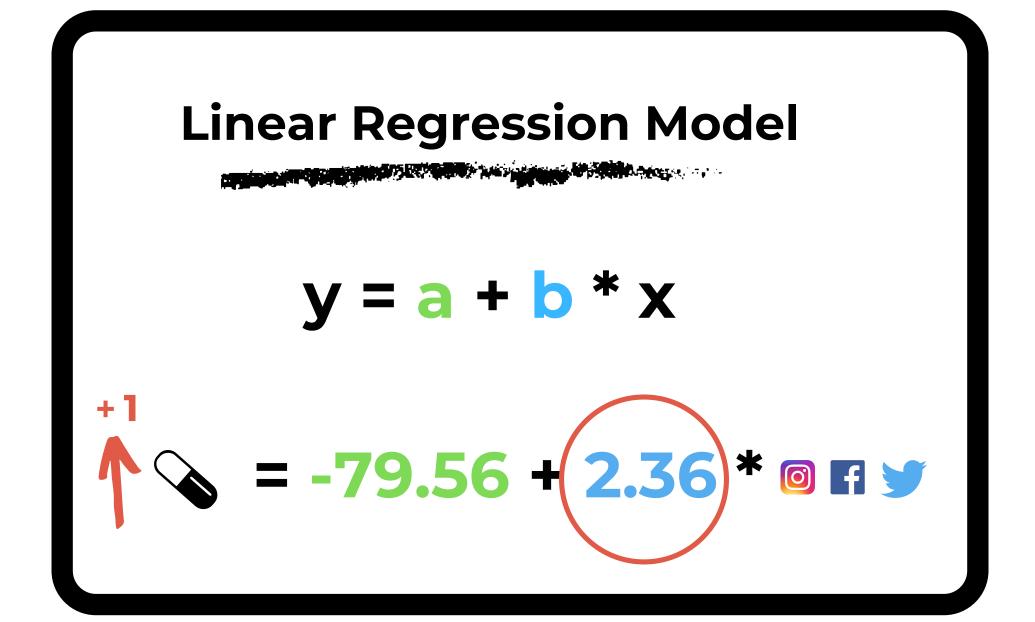
pvalue=0.0 /9

stderr=0.5

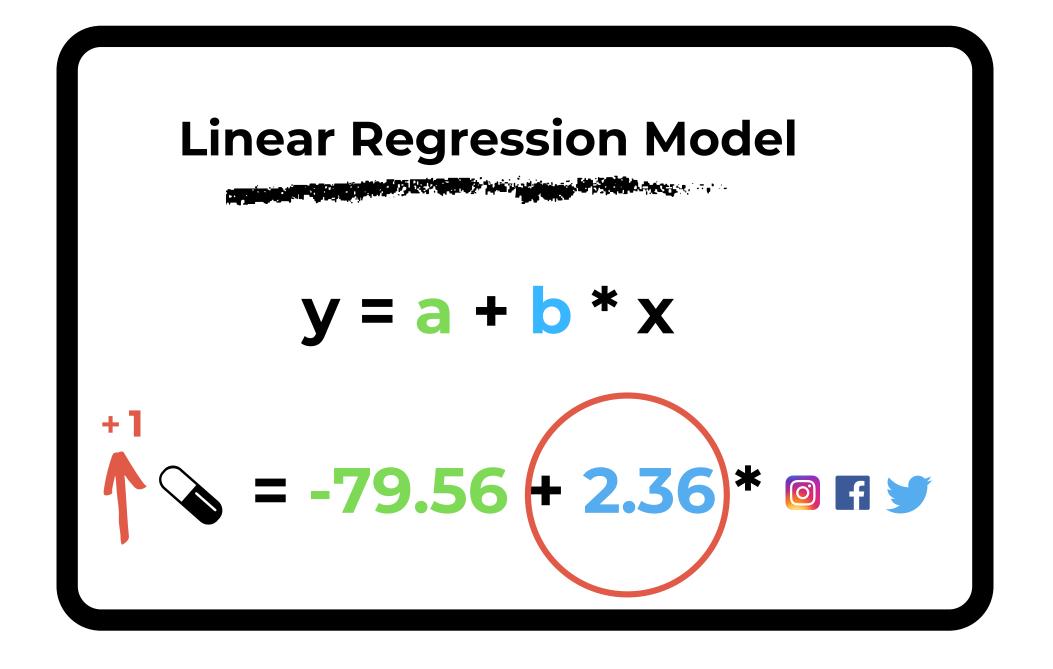
Linear Regression Model

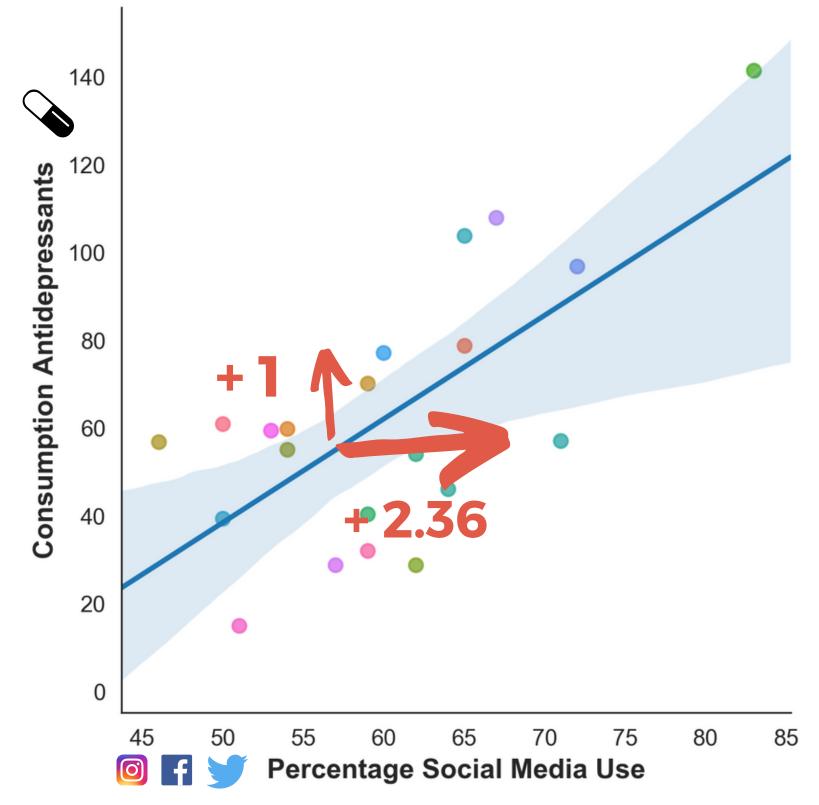
$$y = a + b * x$$





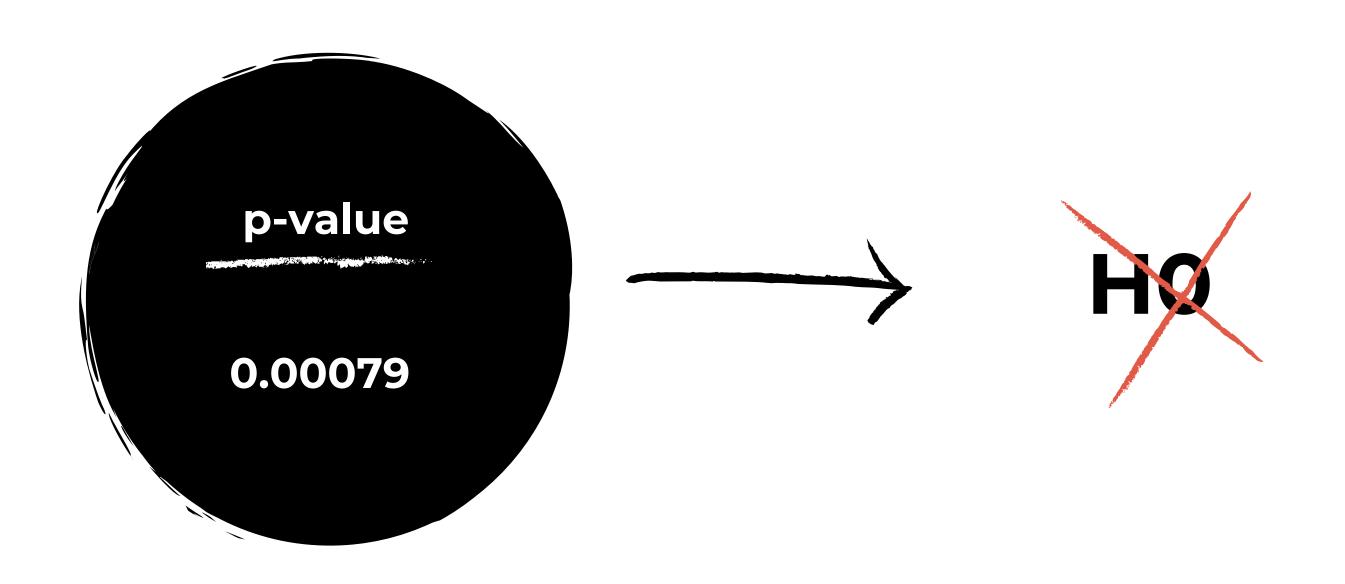




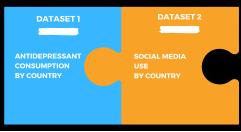




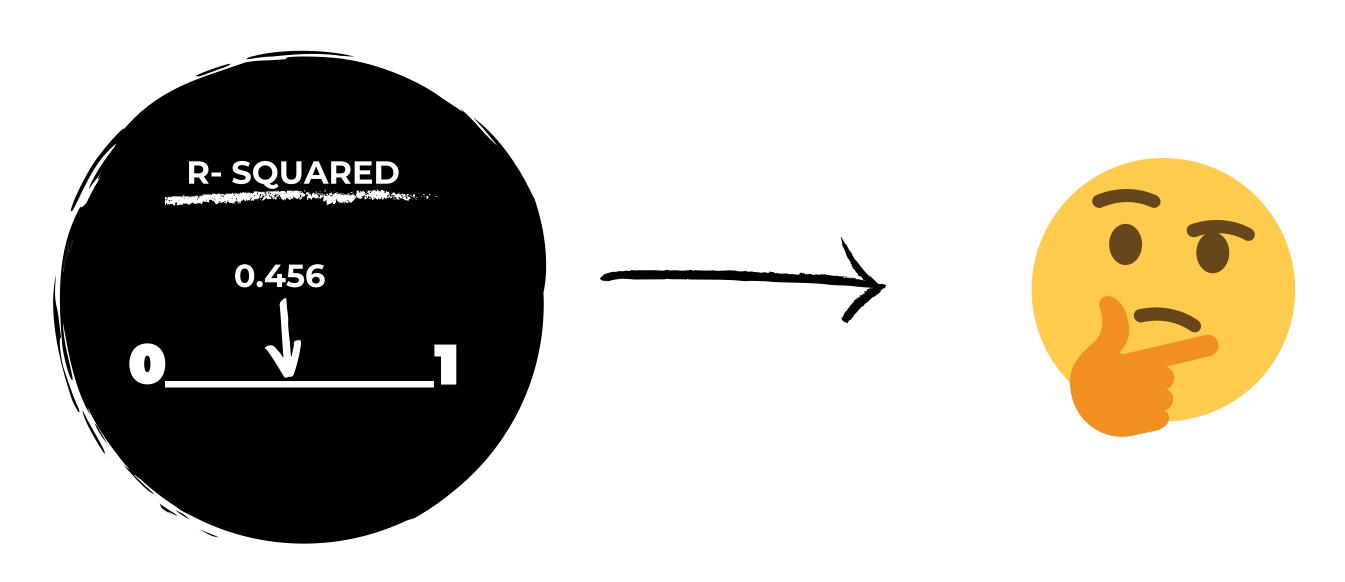
HO: "ANTIDEPRESSANT CONSUMPTION & SOCIAL MEDIA ARE INDEPENDENT"



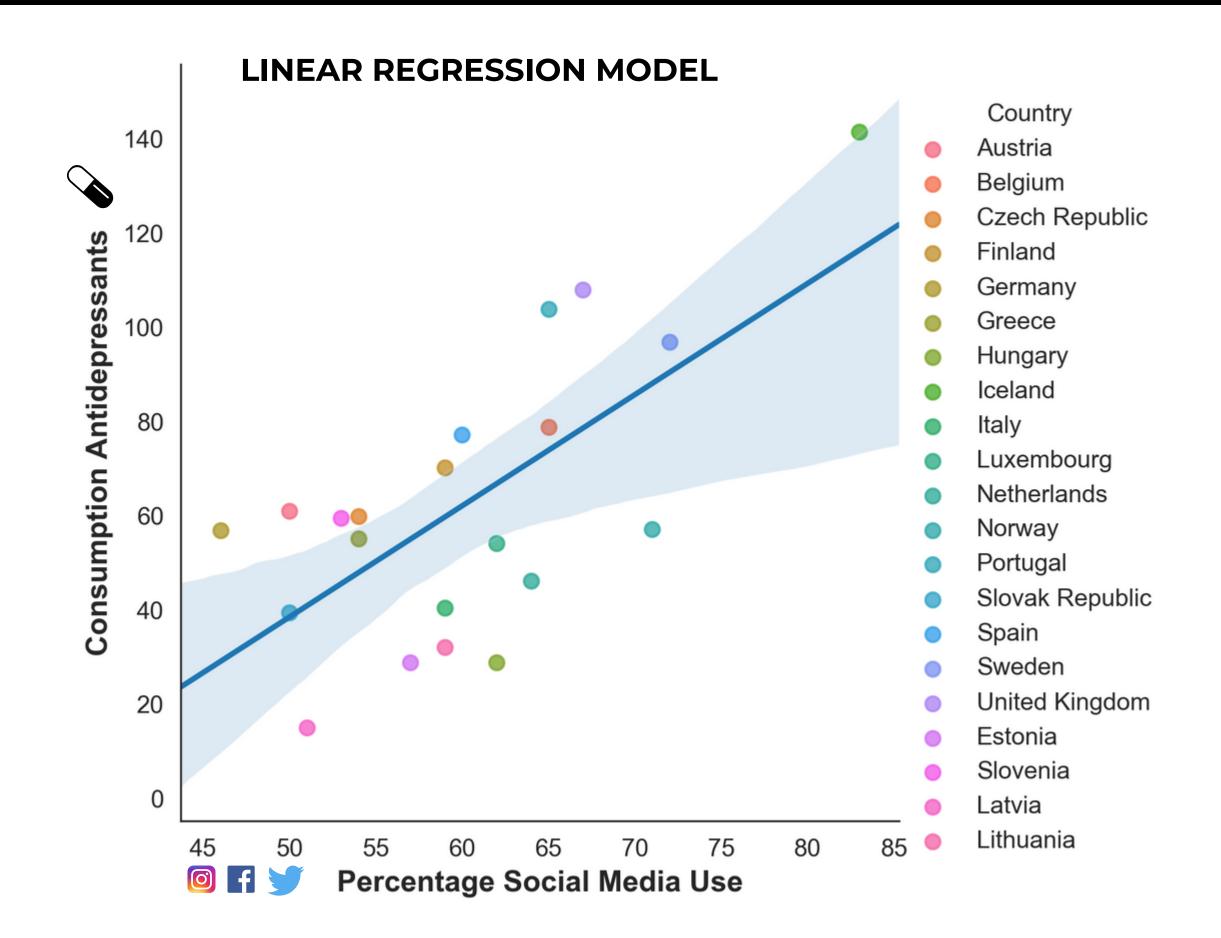
ACCESSING THE MODEL FIT



HOW WELL CAN OUR MODEL PREDICT CHANGES IN THE CONSUMPTION OF ANTIDEPRESSANTS?







FINDINGS



+ 2.36 STEP INCREASE IN SOCIAL MEDIA



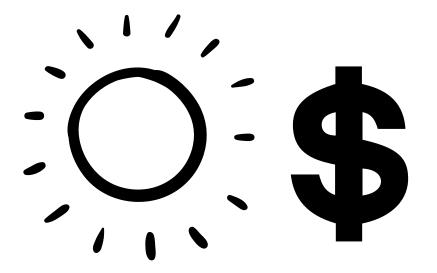
+ 1 STEP INCREASE IN ANTIDEPRESSANT CONSUMPTION

HIGH VARIATION IN OUR MODEL - CONSUMPTION CANNOT BE SOLELY EXPLAINED BY SOCIAL MEDIA USE

FUTURE ADJUSTMENTS

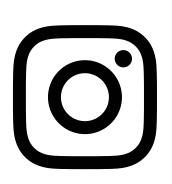
ADDING MORE PREDICTORS

WORLDWIDE





AVG TIME SPENT ON WHICH CHANNEL





THANK YOU!

QUESTIONS?