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PREDICTIONS IN MENTAL ILLNESS

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**AT RISK**

## SOURCE

- ▶ Objective is to predict debilitating depression and anxiety, and to identify contributing factors.
- ▶ Tools will be 700+ survey questions from 26,000+ U.S. respondents.
- ▶ 90 Questions ultimately used regarding living conditions to societal factors lifestyles.

700+  
questions

26k  
respondents

# UTILITY CONTEXT

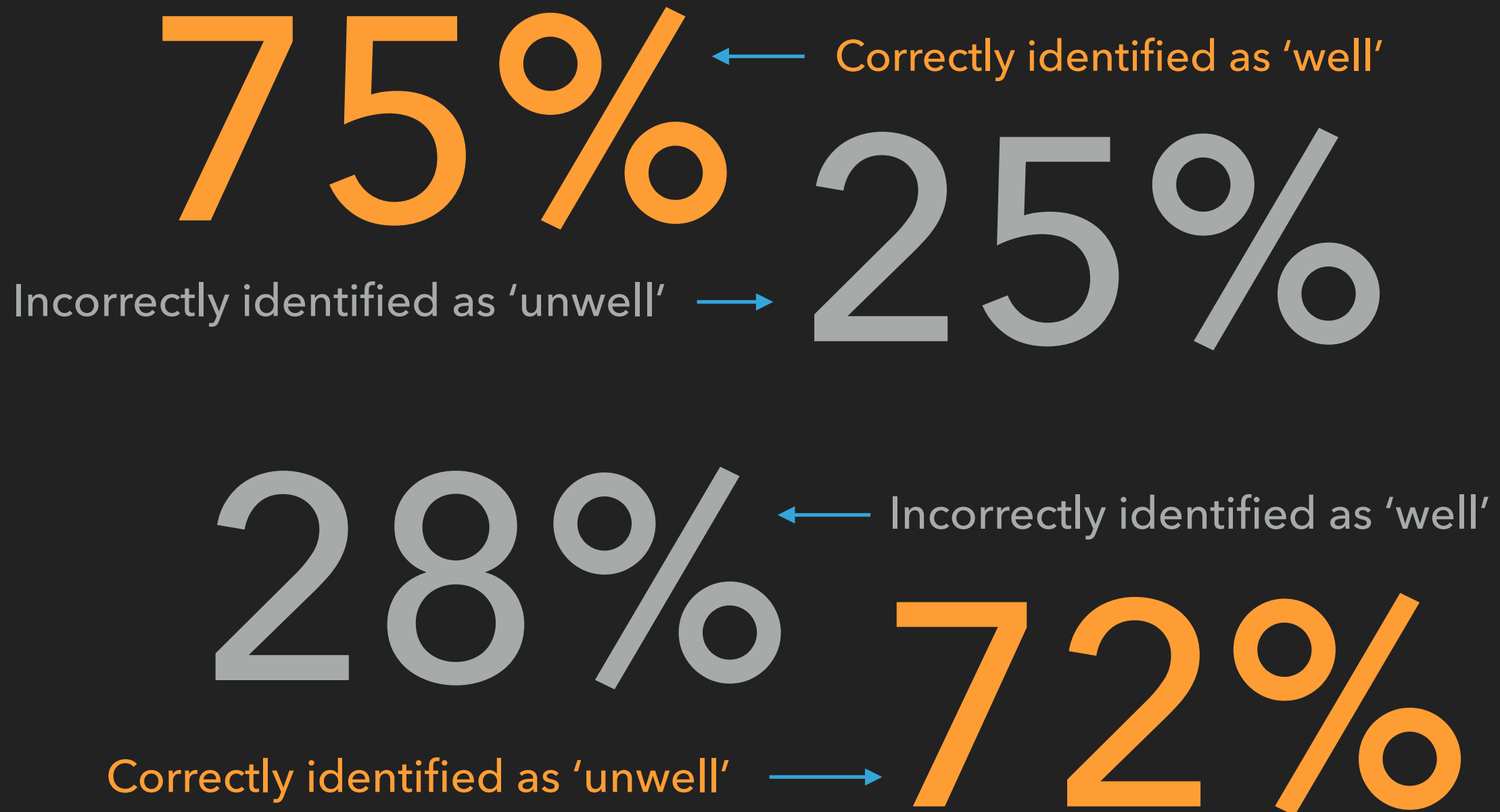
## WHAT THIS REPORT IS AND IS NOT

- ▶ It is *not* a guidebook for how to avoid or heal mental illness.
- ▶ it is *not* investigating relative happiness.
- ▶ Solely to predict certain mental illnesses based on external factors, and to spotlight factors for potential investigation.
- ▶ Predicting mental illness provides the tools to determine where to allocate resources for the to best alleviate those illnesses.



# MODEL PREDICTIONS

Using 'well' to stand for having no debilitating depression or anxiety,  
and 'unwell' to stand for having debilitating depression or anxiety

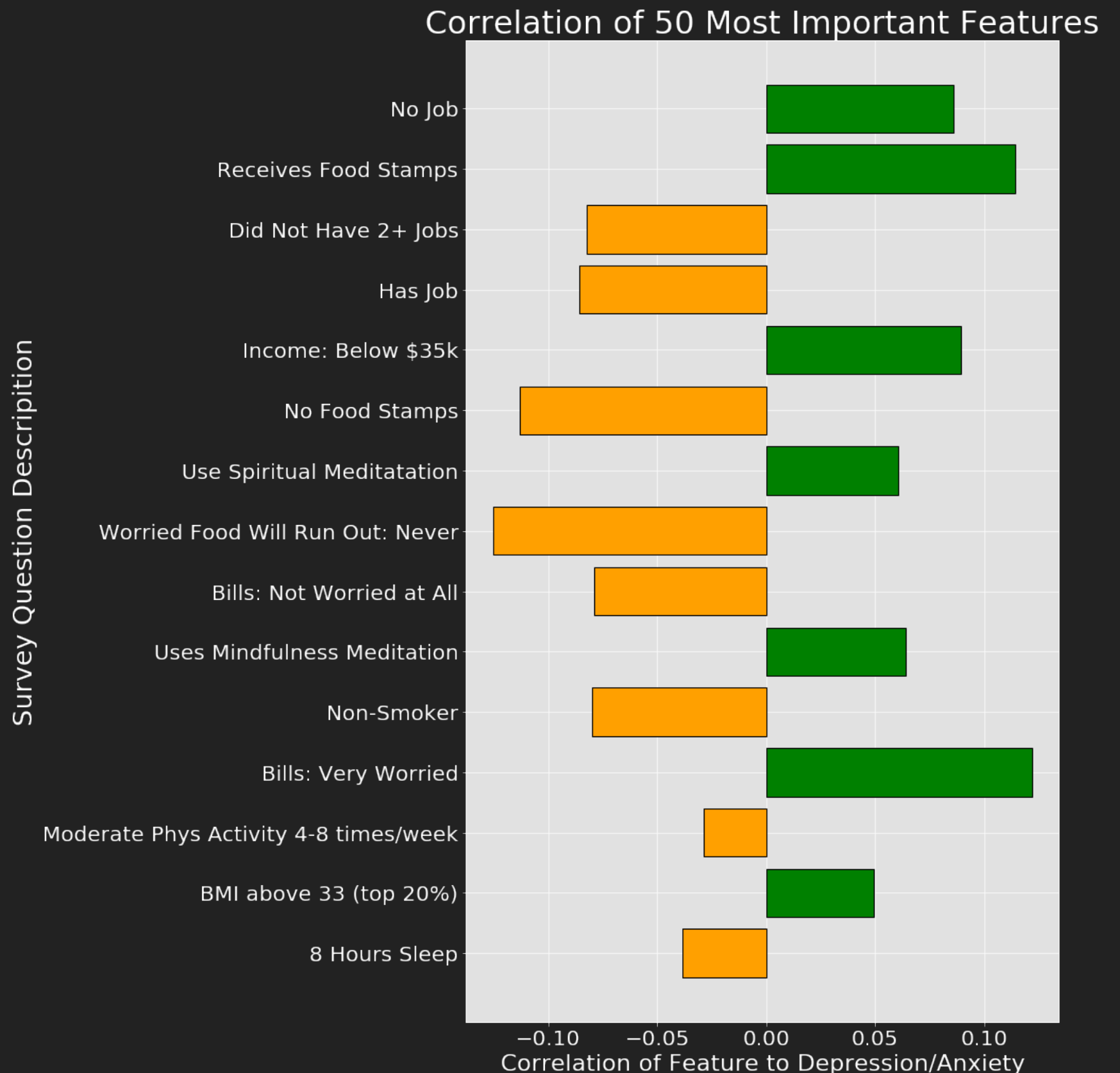


'Unwell' defined as self-identified having activity limited by depression, anxiety, or other emotional mental illness, and 'well' as having no such limitation.

# MOST SIGNIFICANT FEATURES USED IN MODELING

## TOP FIFTEEN

- ▶ Correlation is not causation.
- ▶ These provide the means to identify, not to attribute.
- ▶ Primary driving features are economic. Some health factors.



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# CONCLUSIONS

- ▶ Debilitating depression and anxiety linked with economic factors, particularly poverty.
- ▶ Predictive modeling pinpoints a quarter of the population for risk, and identifies almost 3/4 of ill individuals.
- ▶ These tools allow increased precision when allocating funds for mental illness intervention.

# ONGOING ANALYSIS

- ▶ Deeper research into individual features to determine depth of correlation and cause vs. effect.
- ▶ Dive more into bipolar, schizophrenia, and other illnesses to ascertain similar data for similar reasons.
- ▶ Perform similar research for other nations to see if results are similar.

PREDICTION PRECEDES POLICY

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**THANK YOU!**