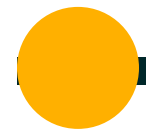


VACCINATION STATUS PREDICTOR

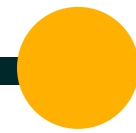
Meir Alelov
[Github](#)



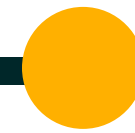
Presentation Outline



Business Problem & Data



Modeling & Evaluation



Recommendations

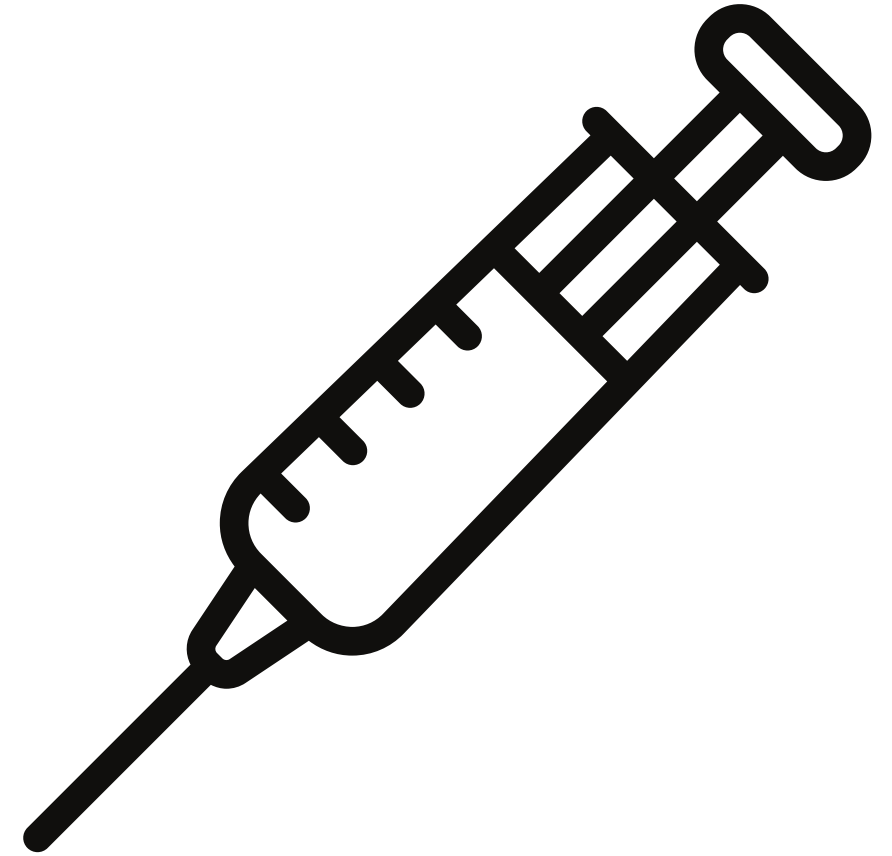


Overview

- **Seasonal Flu Vaccine Classification**

- **Predicting category**

- **Finding top features**



Business Problem

Millions to be made

Chairman positions

Donor funding

Book sales

Scary chemicals

Microchips

Addressing the Problem



● **Use findings to influence the masses**

● **Gain more clout**

● **Secure more funding and income**



Data Understanding

National 2009 H1N1 Flu Survey

Telephone survey of households

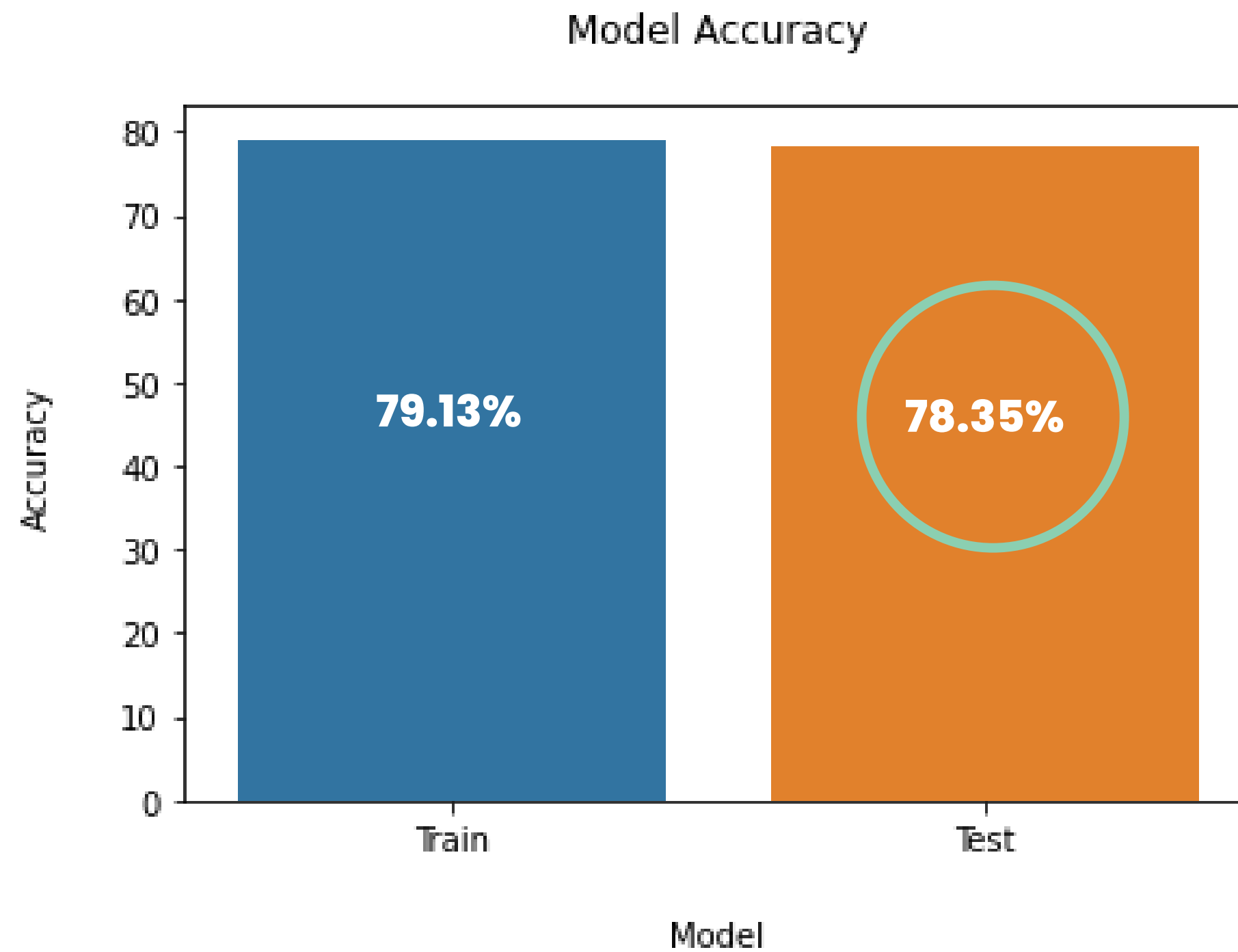
All persons 6 months or older

Additional Information

- **Social, economic, and demographic background**
- **Opinions on risks of illness and vaccine effectiveness**
- **Behaviors towards mitigating transmission**



Classification Model





Top Demographic Features

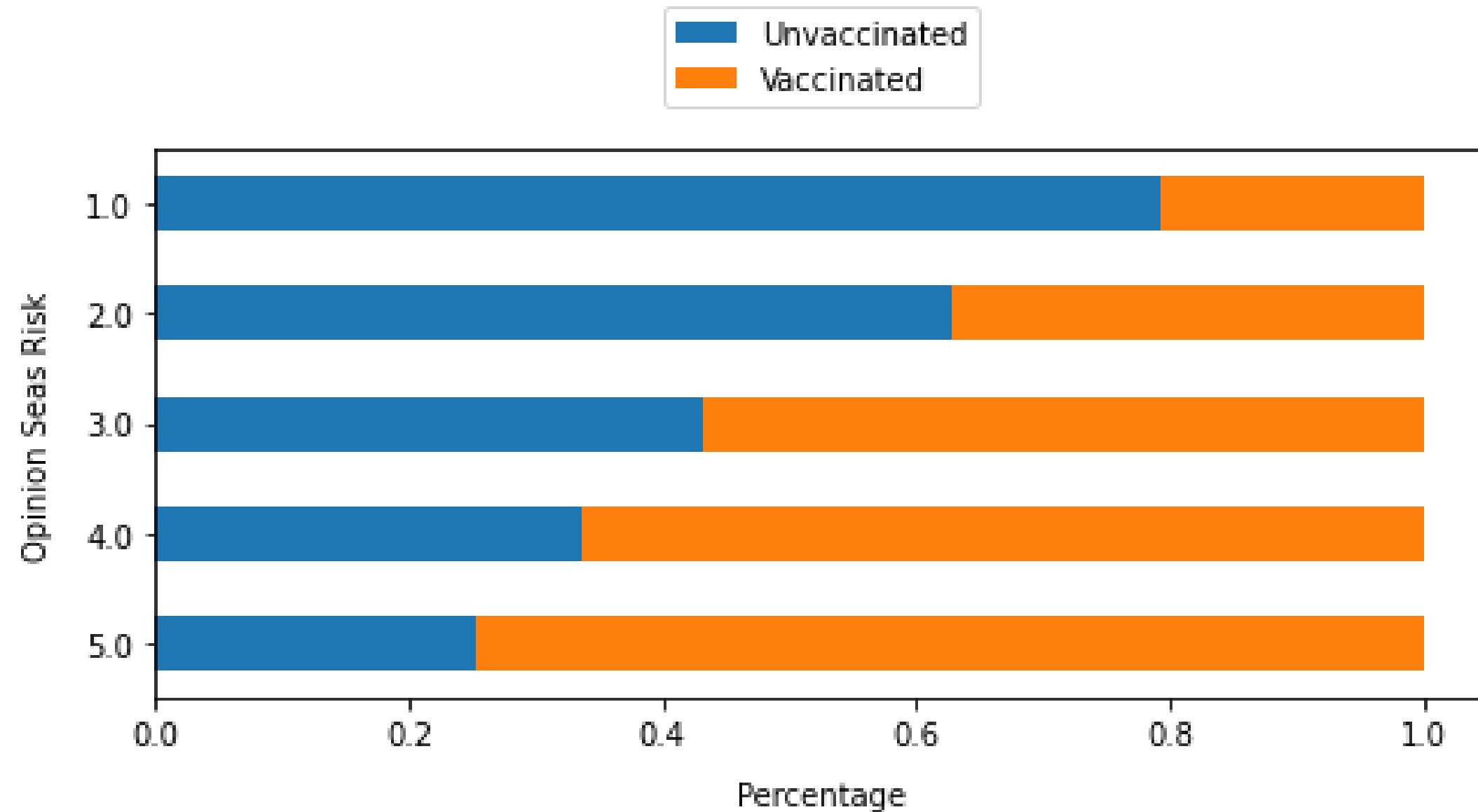
65+ Age group

**Doctor
recommendation**

**Opinion on risk of
infection without
vaccine.**

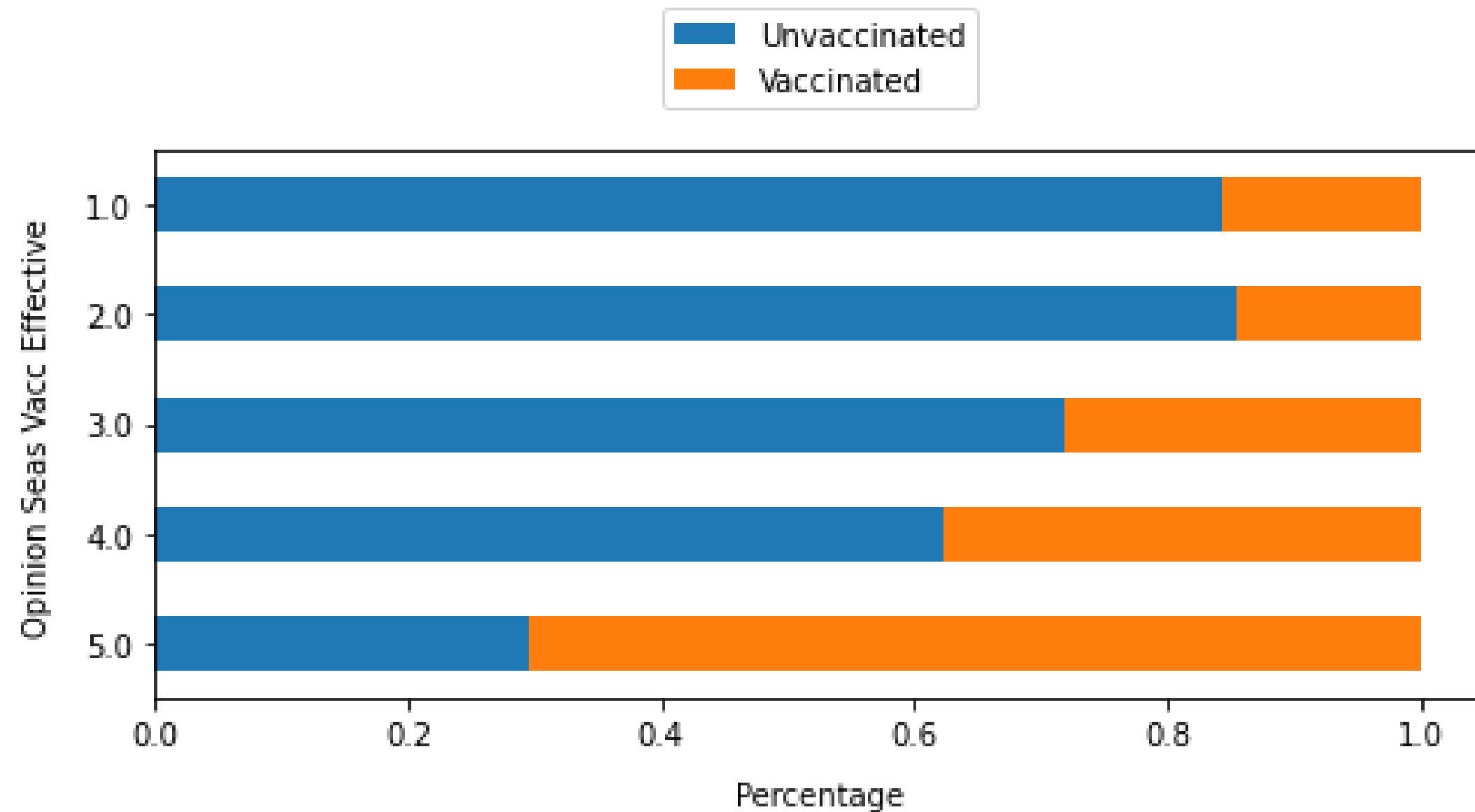
**Opinion on seasonal
flu vaccine
effectiveness**

Infection Without Seasonal Vaccine Risk Opinion

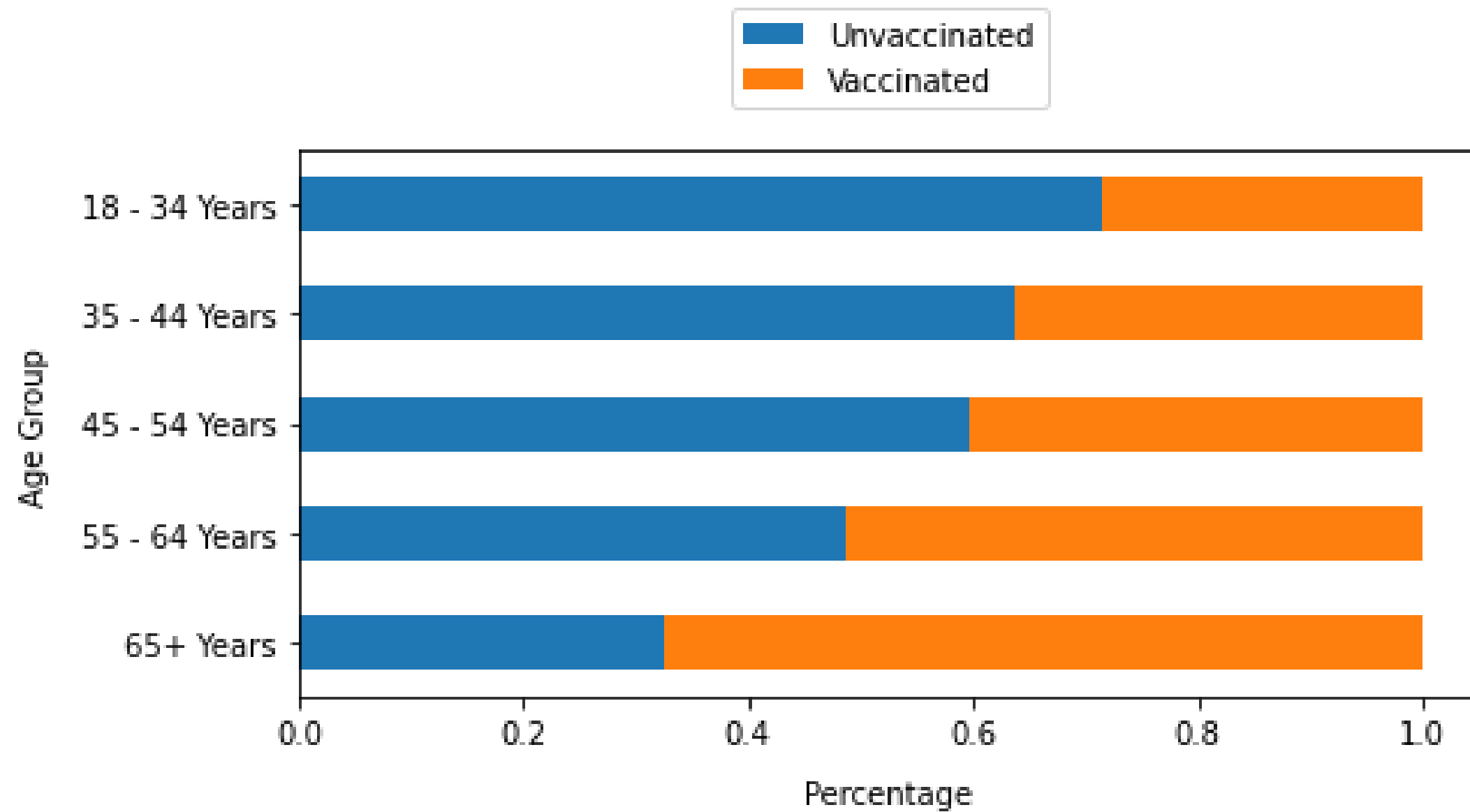


Seasonal Flu Vaccine Effectiveness

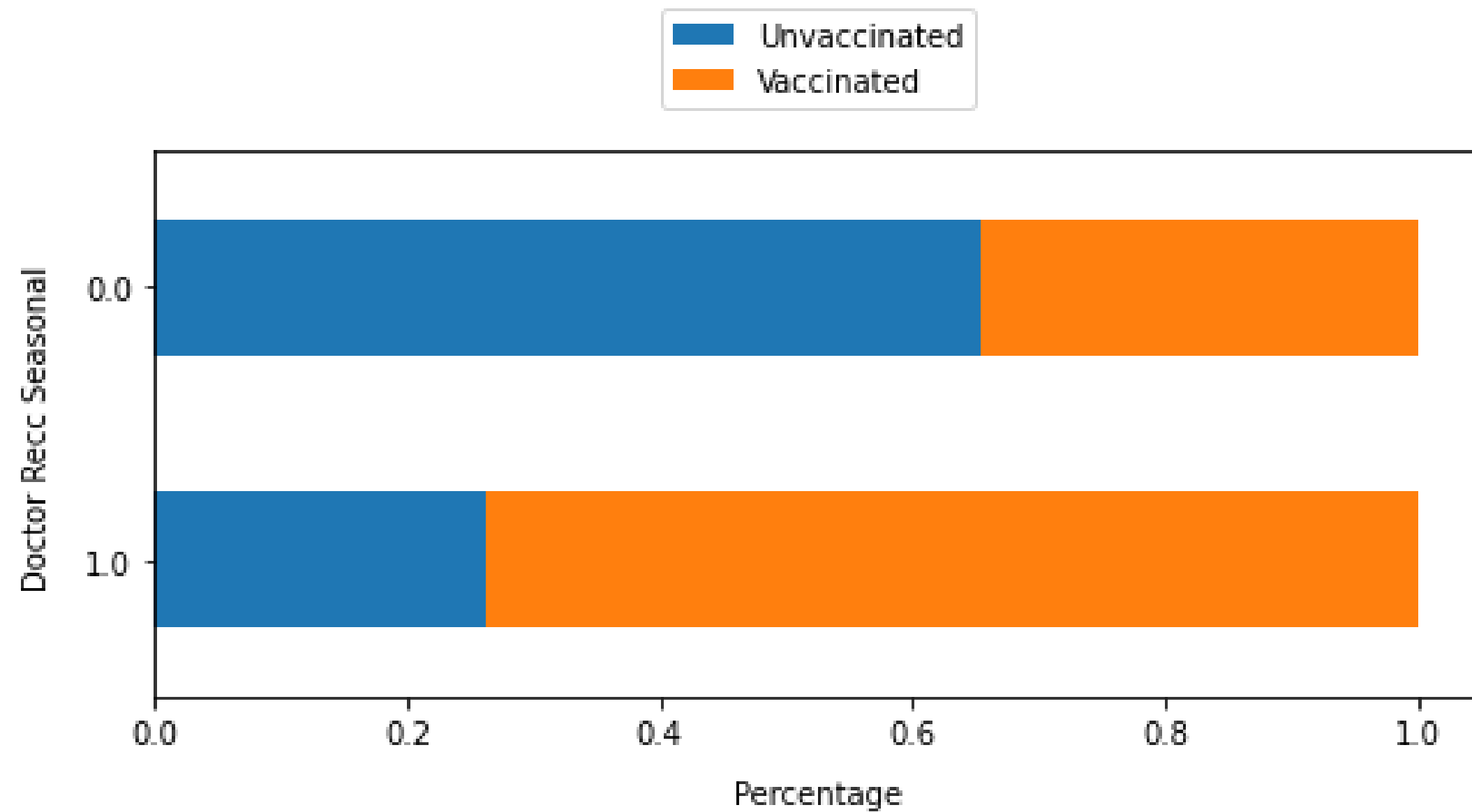
Opinion



Age Group



Doctor's Recommendation



Where I Come In

Necessary tools to make real-world changes

Build a proven track record

Increase income flow

Recommendations

Target individuals 65 years and older

Change opinions on risk of getting infected without a vaccine

Change opinions on effectiveness of the vaccine

Target doctors

Next Steps

More robust survey

More complexity in data

More extensive model tuning

Thank you

Questions?



Contact Information

Meir Alelov

meir@alelov.com

Github

