

# Boosting Vaccination Rates

**Making Healthier Communities** 

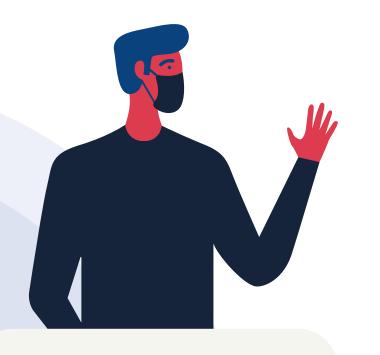




## We Will Propose...

- 1.) Consistency in physician promotion
- 2.) Emphasis on risk of illness and effectiveness of vaccines
- 3.) Targeting specific demographics





# Agenda



**Business Problem** 

Data & Methods

Results

Recommendations

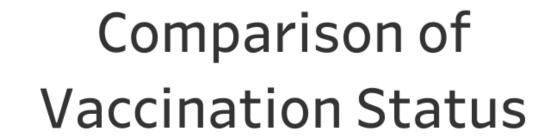


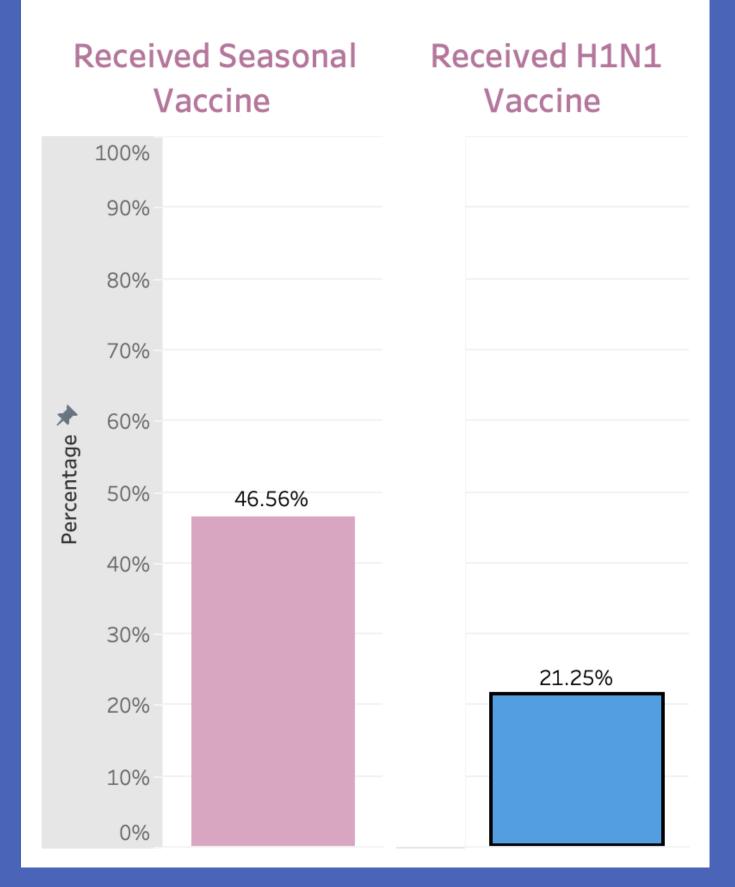
#### **Business Problem**

How to increase vaccine acceptance in preparation for future pandemics?

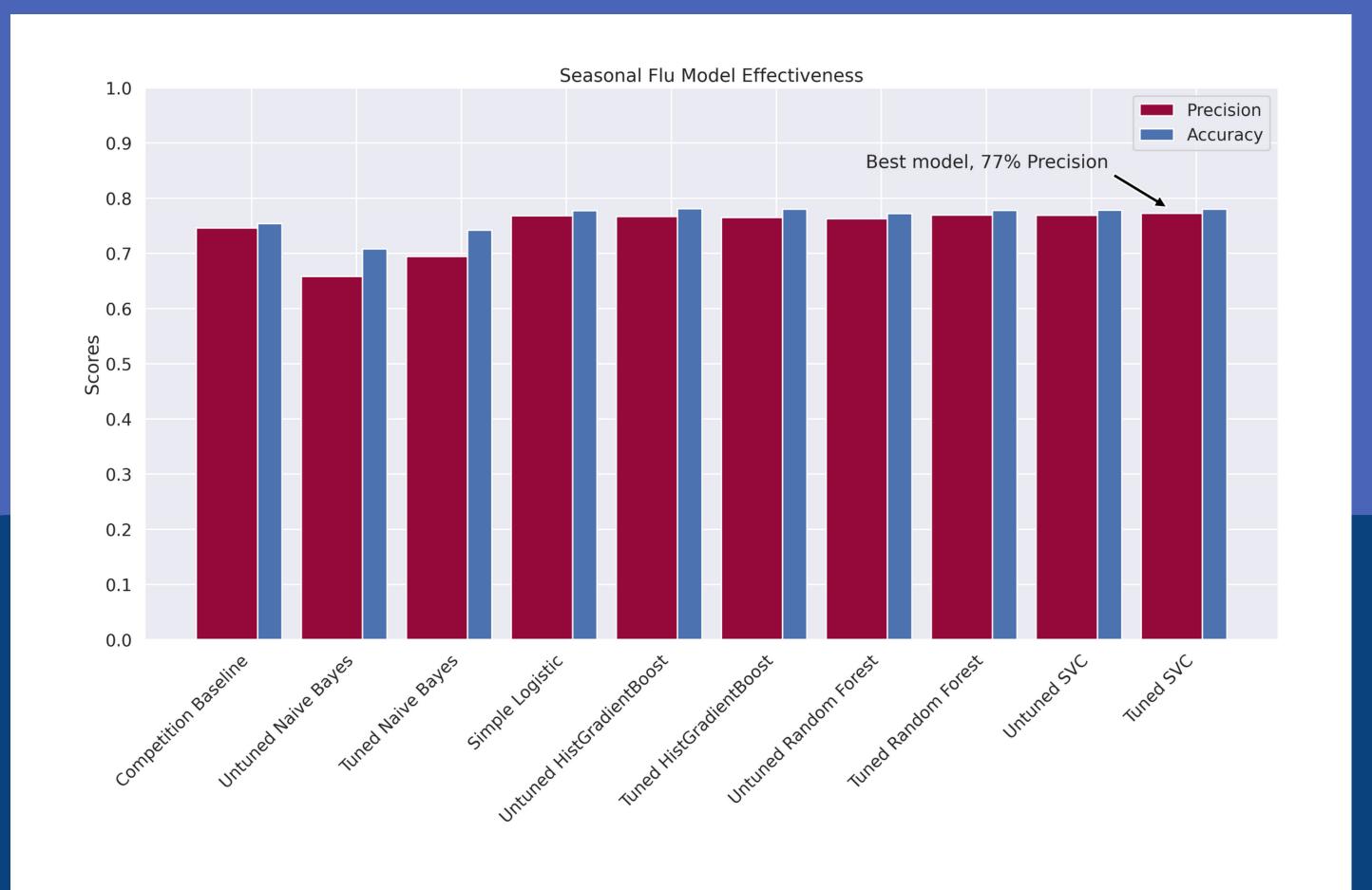
### Dataset

- Interviews conducted from September 2009
   -June 2010
- 26,707 respondents
- Broad range of demographics



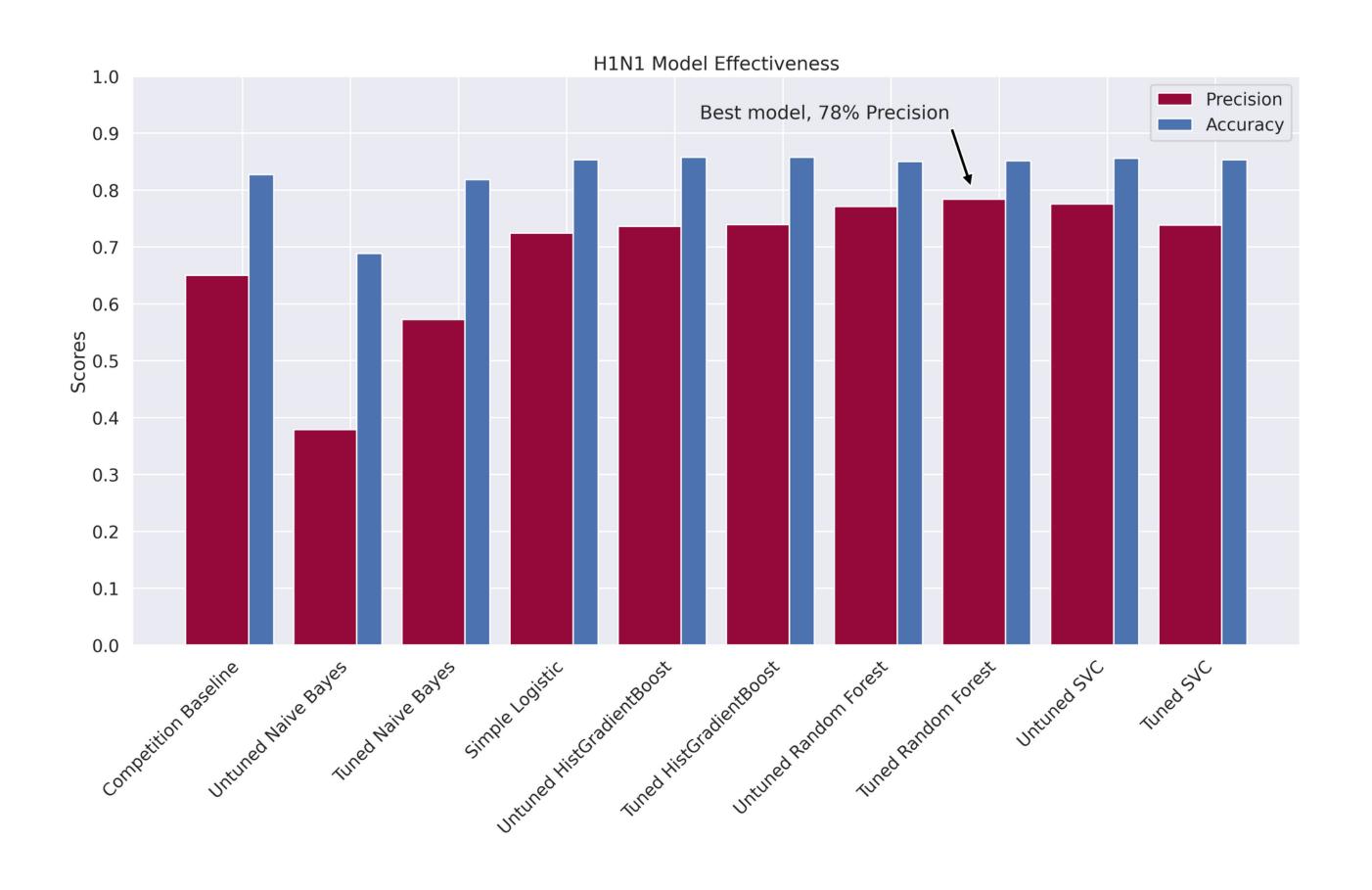






# Seasonal Flu Modeling

Precision Metric:
how often are we
predicting that
people will get
vaccinated who
really aren't?

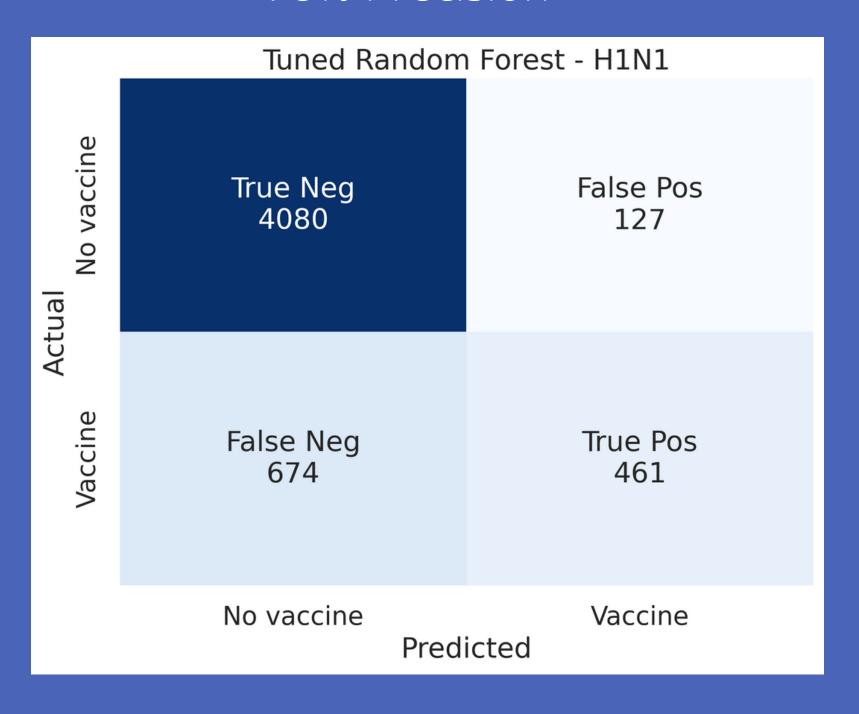


## H1N1 Modeling

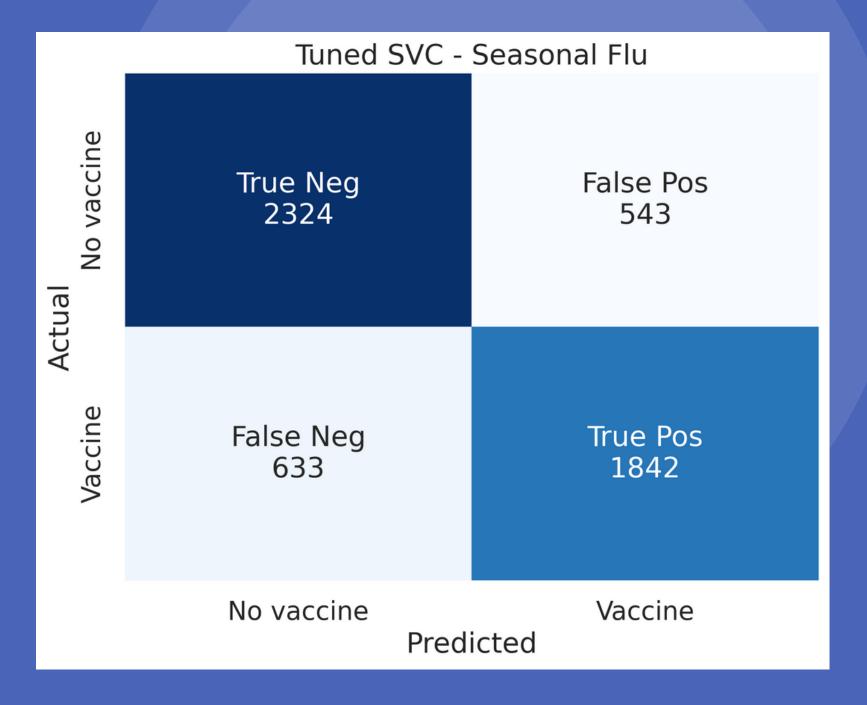


### Best Models

#### 78% Precision



#### 77% Precision

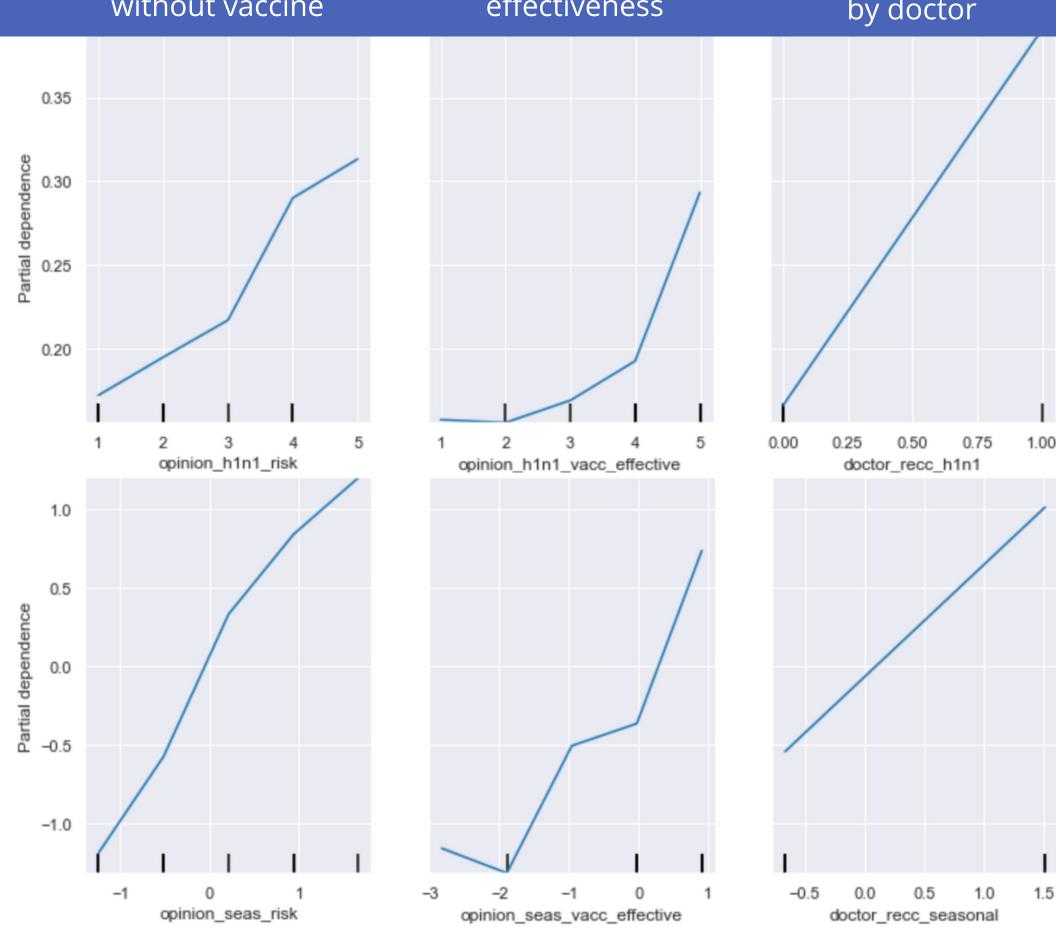


# Most important features

Opinion on getting sick without vaccine

Opinion on vaccine effectiveness

Was vaccine recommended by doctor



Seasonal

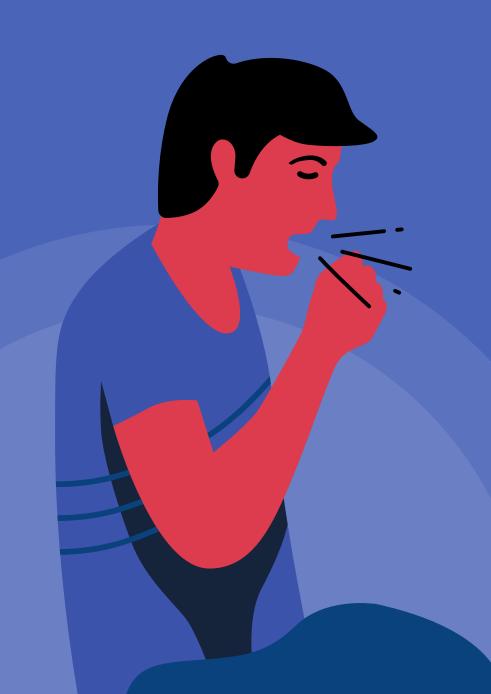
## Demographics Matter

# Least likely to get the H1N1 vaccine:

35-44 year olds

Those living in poverty

Unmarried individuals





- 1.) Emphasize to medical professionals to consistently recommend vaccinations for their patients
- 2.) Public awareness campaign about the risk of getting sick without a vaccine as well as the effectiveness of vaccines
- 3.) Target outreach efforts most on those in the 35-44 year old age range, those living in poverty, and those who are not married



# Questions or comments?

Get in touch!

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