

OUR TEAM



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Business Overview

Data Overview

Analysis

Recommendations

Future Steps

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Business Overview

 Increase vaccination numbers for seasonal flu

 Predict what makes a person more or less likely to get vaccinated

Why is this Important?

7.5 Million



Illnesses prevented by flu vaccinations

3.7 Million



Flu-related medical visits prevented

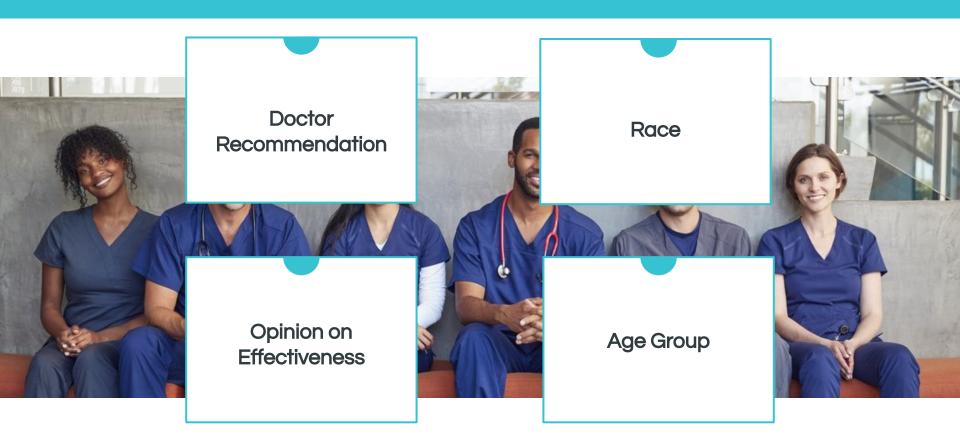
105k



Flu-related hospitalizations prevented



Bottom Line



Data Overview

Model Results

• Under the Microscope: Key Predictors

Recommendations



Data Overview

- The data from the National 2009 H1N1 Flu Survey (NHFS)
- There are 26,000 respondents to this survey
- We chose to focus on Season Flu vaccination rate as our target variable
- 79% of respondents were caucasian

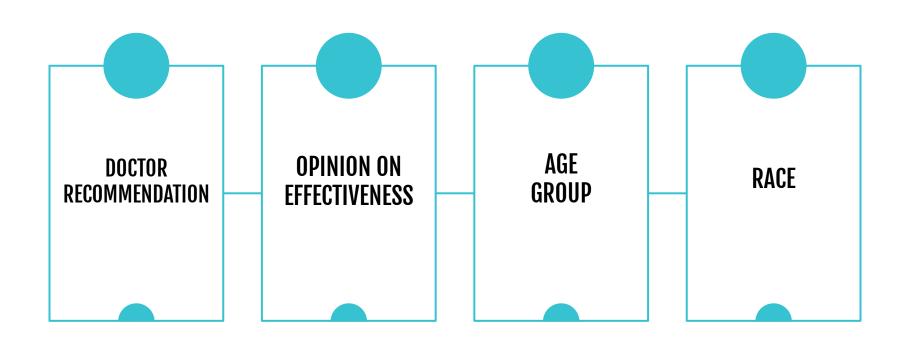
Logistic Regression



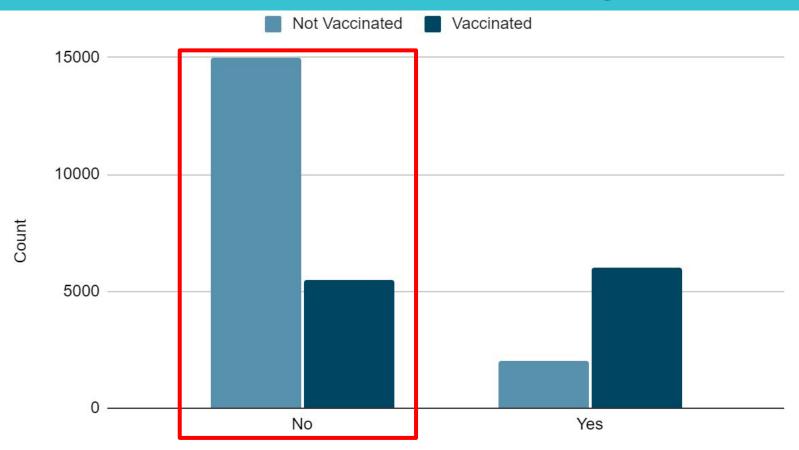
Baseline precision score - 49%

After feature selection, the precision score improved to 78%

Under the Microscope: Key Predictors

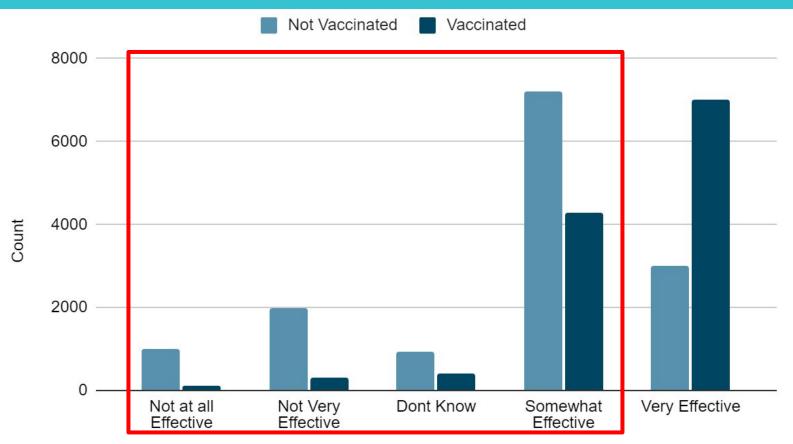


Doctors need to lead the fight!



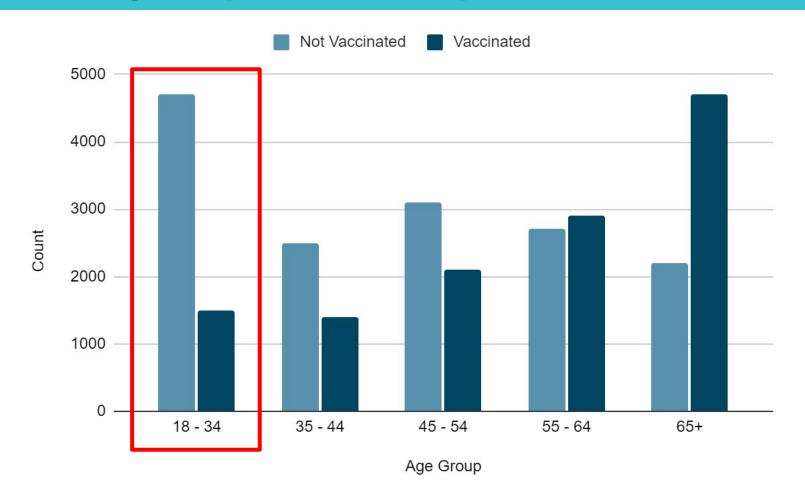
Seasonal Flu Vaccine Recommended by Doctor

If they don't know they won't go!

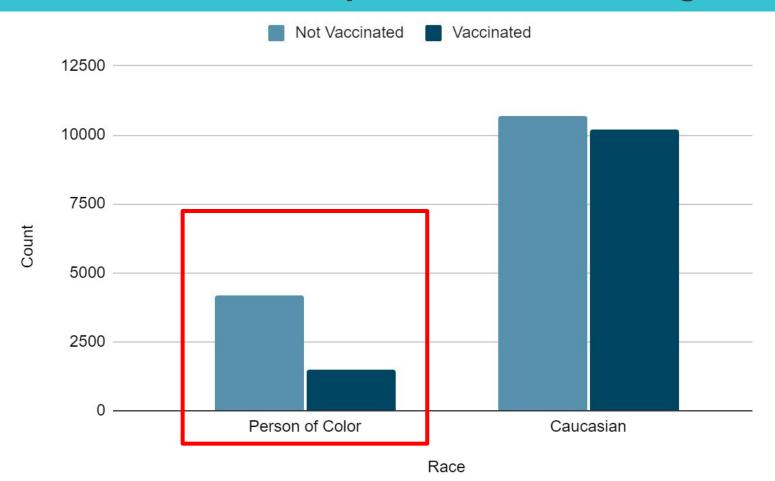


Opinion of Seasonal Flu Vaccine Effectiveness

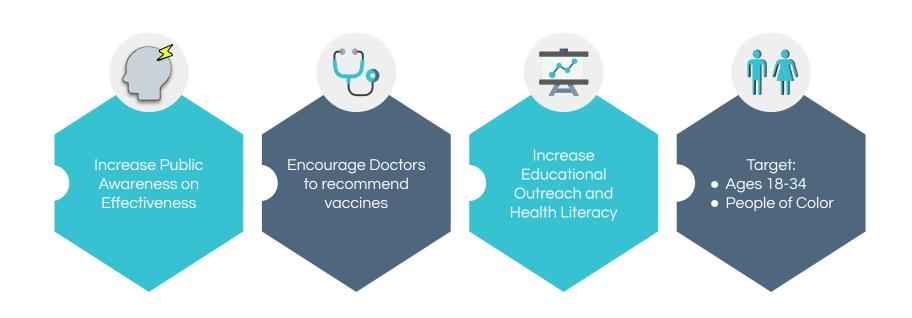
Young People Less Likely to be Vaccinated



Vaccinations unevenly distributed among Race



Recommendations



Future Steps

 Collect more data to address underrepresentation of minorities

 Conduct a new survey as attitudes around vaccinations have changed



Questions?



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THANKS!

