Face the Vaxx

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Introduction

- H1N1 influenza virus
 - Aka "swine flu"
 - o Pandemic in 2009
 - First year: killed ~ 151,000 575,000 globally



https://www.news-medical.net/news/202205 16/Study-suggests-the-seasonal-H1N1-flu-vir us-may-be-a-direct-descendant-of-the-1918-i nfluenza-strain-that-caused-a-global-flu-pand emic.aspx

Business Context

Problem:

 Want to increase H1N1 vaccination rates

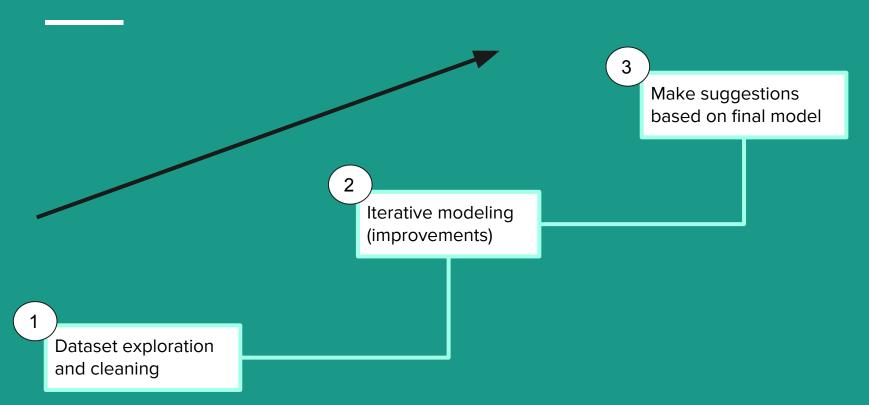
Goal:

 Generate suggestions for types of people to target

Variables to Consider

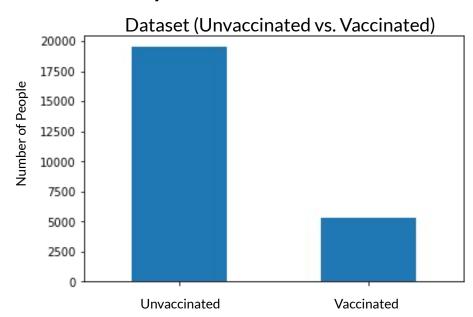
- Dependent variable: h1n1_vaccine
 - Vaccinated or not?
- Decide on best predictors for H1N1 vaccination
 - Determined by classification model
 - Most important features (groups to target)

Methods (Process Steps)



Dataset

- h1n1_data
 - Taken from National 2009 H1N1 Flu Survey
 - Questions on people's...
 - Backgrounds
 - Opinions
 - Health behaviors

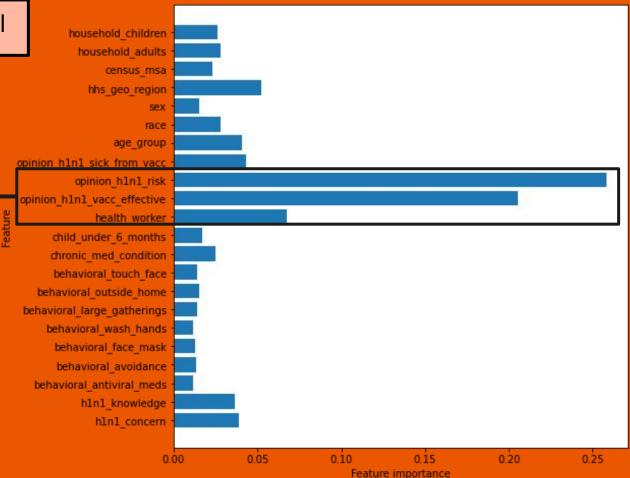




Had an **accuracy** of **81.4%**

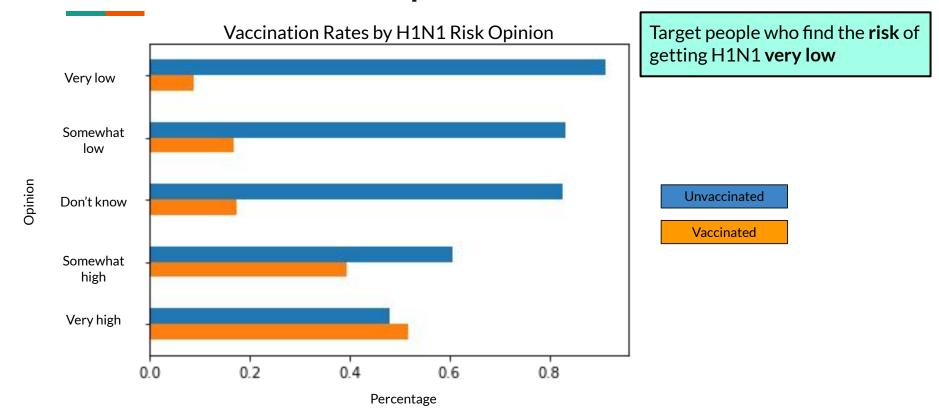
Most important features:

- opinion_h1n1_risk
- opinion_h1n1_vacc_ effective
- health_worker

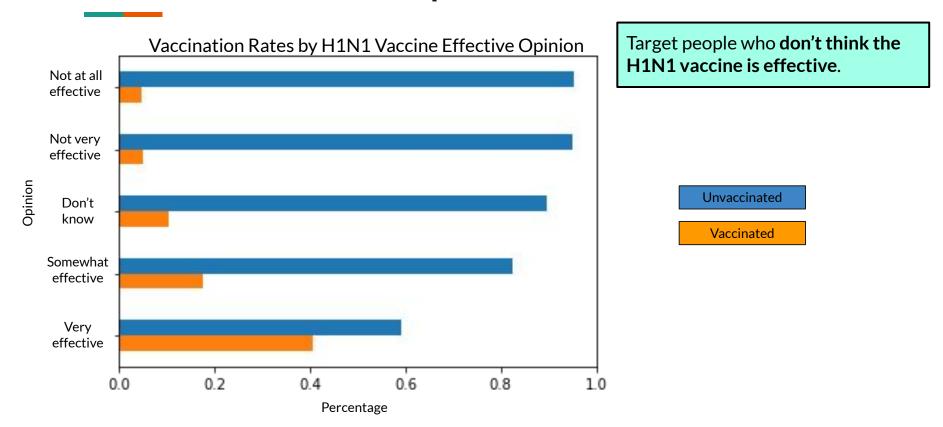


Results & Business Recommendations

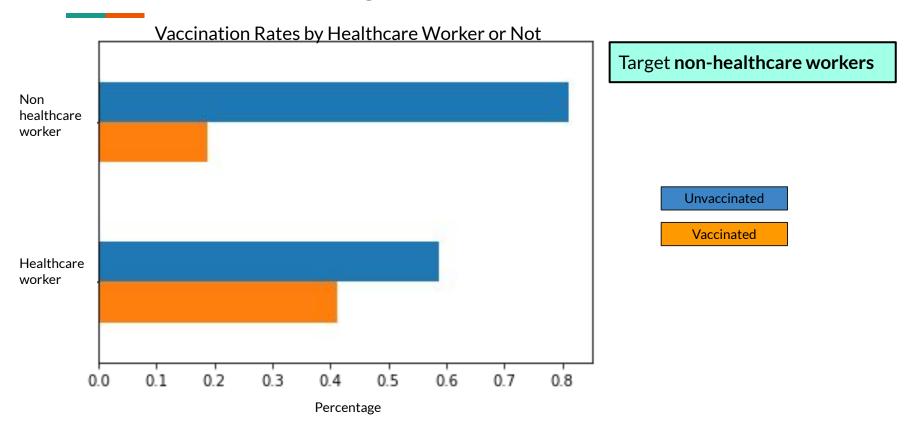
Recommendation #1: opinion_h1n1_risk

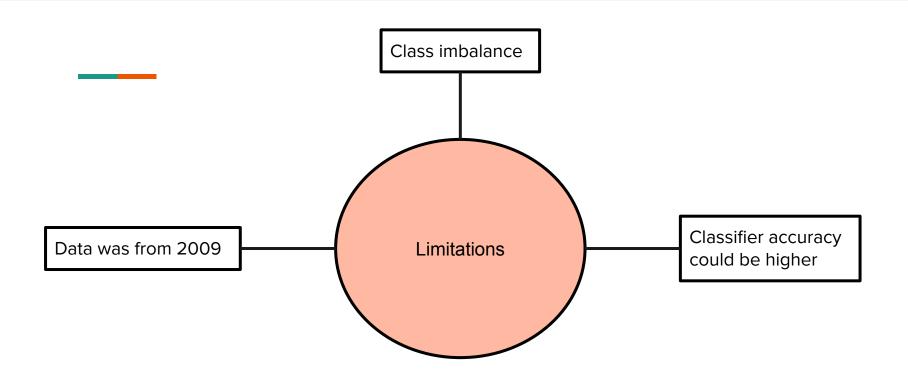


Recommendation #2: opinion_h1n1_vacc_effective



Recommendation #3: health_worker





Summary

- Target people who...
 - Find the risk of getting H1N1 very low
 - Think the vaccine is not effective
 - Are non-healthcare workers

Contact

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