



Seasonal Flu Vaccine

Presented by: Alison Park



Overview

01

Business Problem

How many people are getting their seasonal vaccines?

02

Data

National 2009 H1N1 Flu Survey

03

Model

Random Forest Model

04

Conclusion

Key features
Next Steps



Business Problem

Is this person going to get the seasonal flu vaccine?



02

Data

National 2009 H1N1 Flu Survey

Total of 26707 data entries

Target

Seasonal flu vaccine



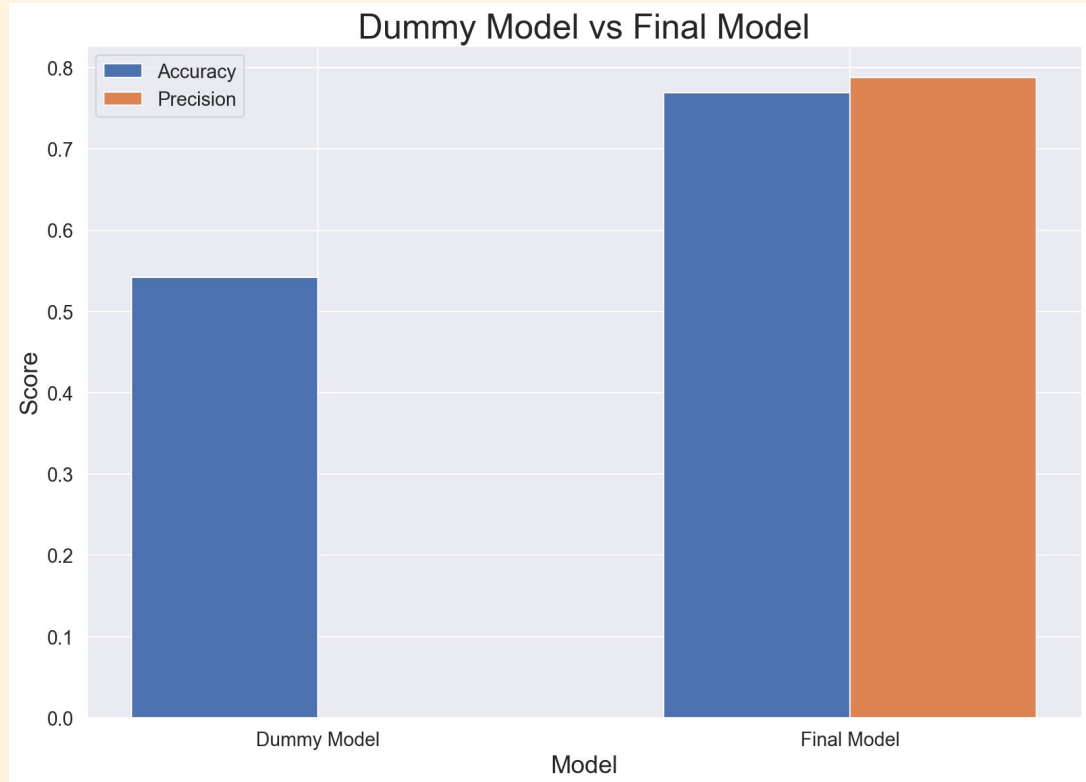


Final Model

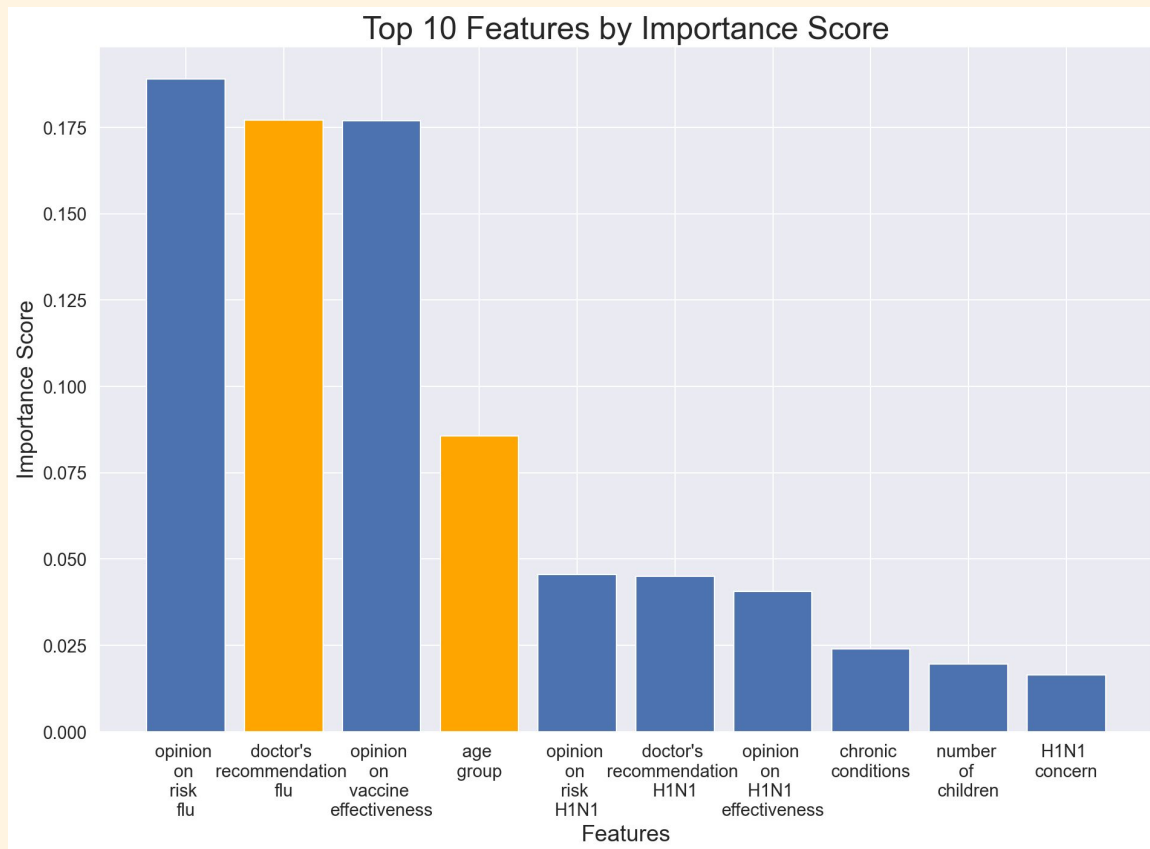
Precision Score

Dummy model -
0.0000

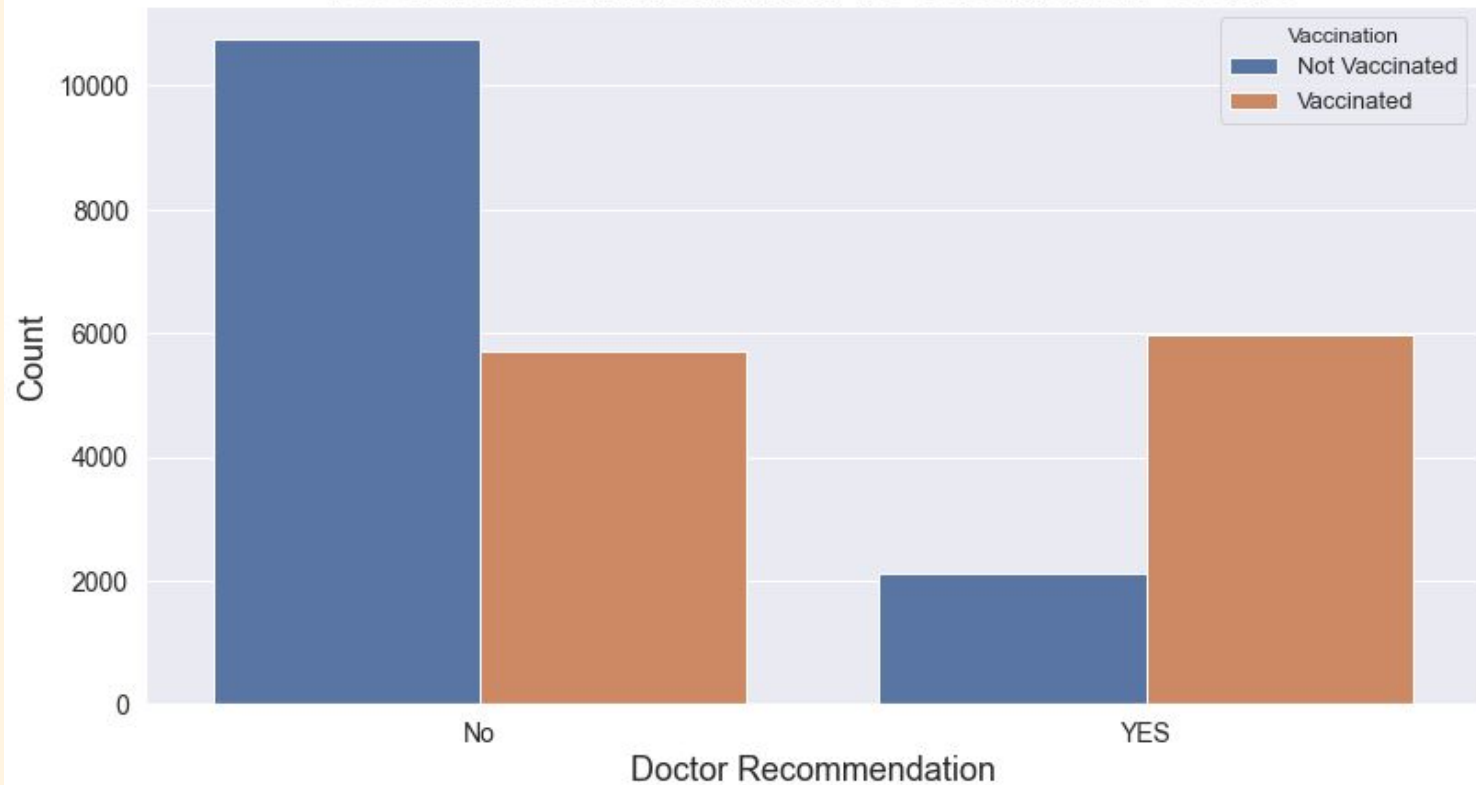
Final Model -
0.7879



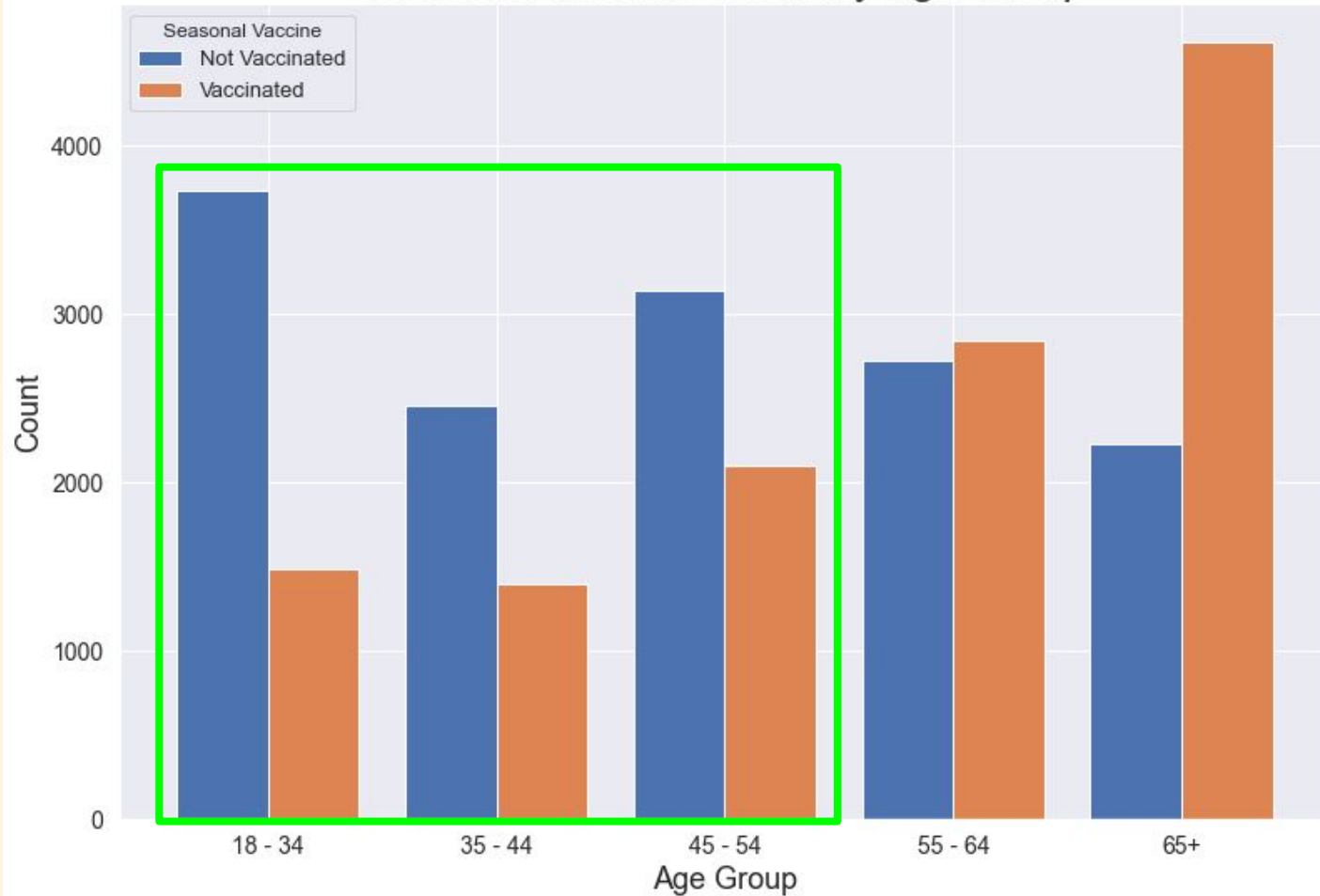
Key Features



Doctor Recommendation vs Vaccination Status



Seasonal Vaccine Count by Age Group



Conclusions



Conclusion 1

Final model had a precision score of
79%

Conclusion 2

The top four key features :

Opinion on risk for flu
Doctor's Recommendation
Opinion on vaccine effectiveness
Age group



Next Steps

Sampling

More recent data, more data points overall

Predictions

Different models, more iterations

01

02

03

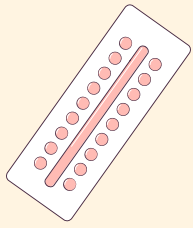
04

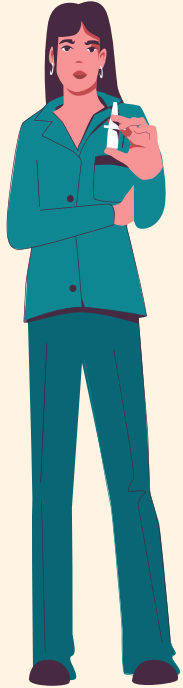
Modeling

Different models

Implementation

Hospital policies





Thanks!

Do you have any questions?

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Github - <https://github.com/alisonpark3/Flu-vaccine-P3-Project>

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