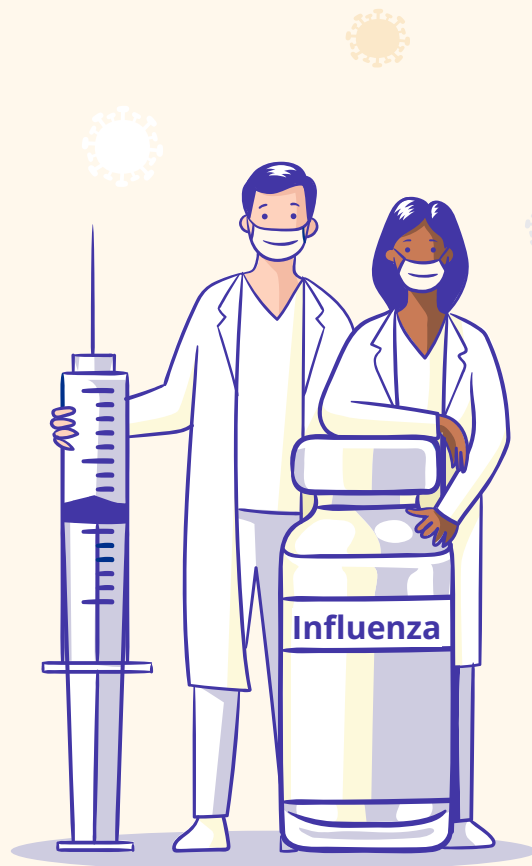


# Predicting Seasonal Flu Vaccine Status

Who needs an extra nudge?



# What We're Going to Do

**01**

**What You Want**

**02**

**What We Made**

**03**

**What We  
Recommend**

**04**

**What Next?**



# Precision matters



Err on the side of assuming  
people are unvaccinated

# Final Model

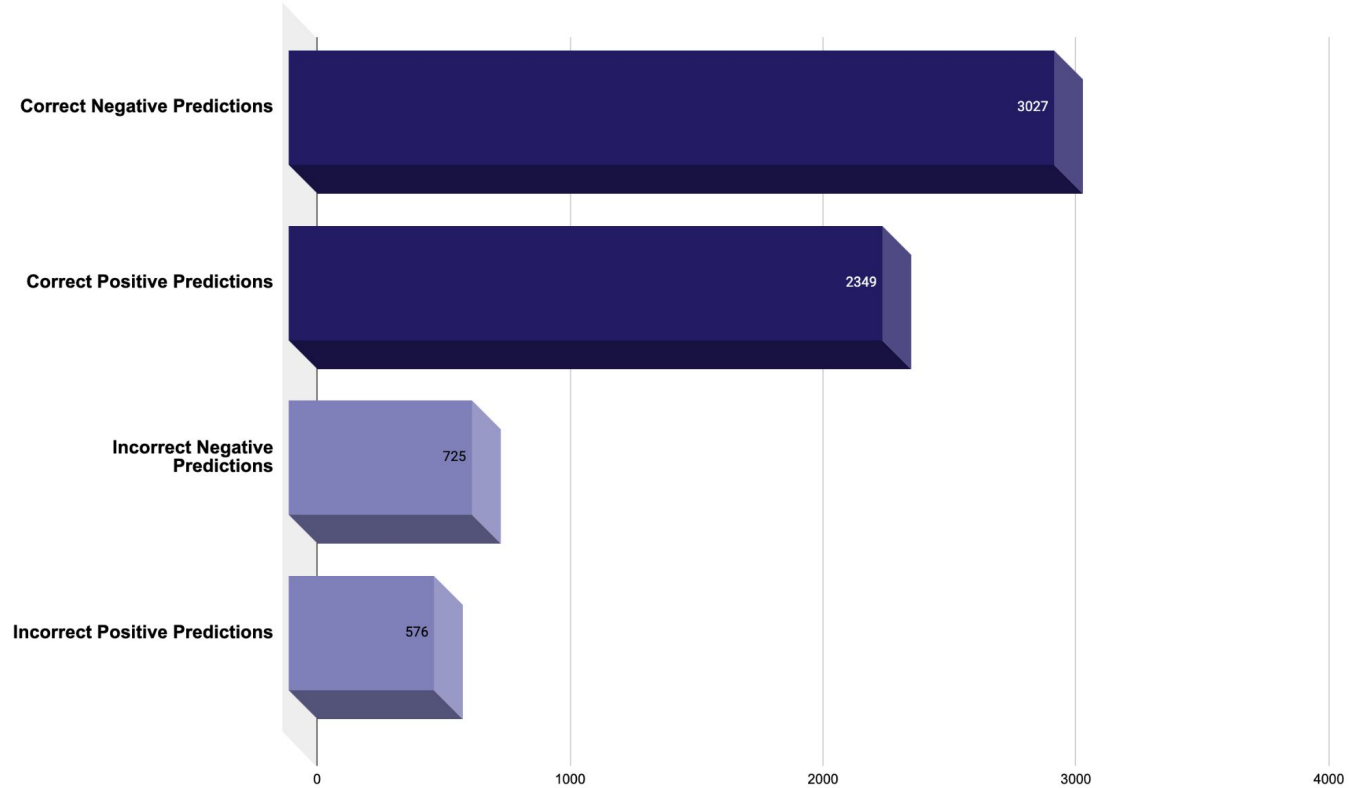
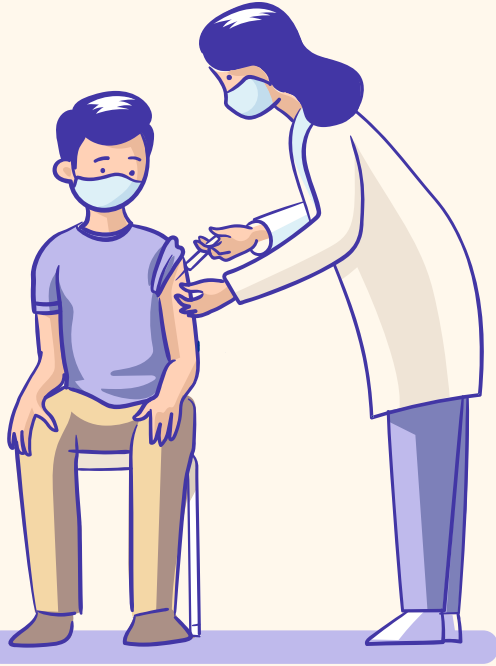
Precision Rate

80%



# What We Made

Model Precision: 80.3%



# Leveraging Feature Importance

**Feature Importance**



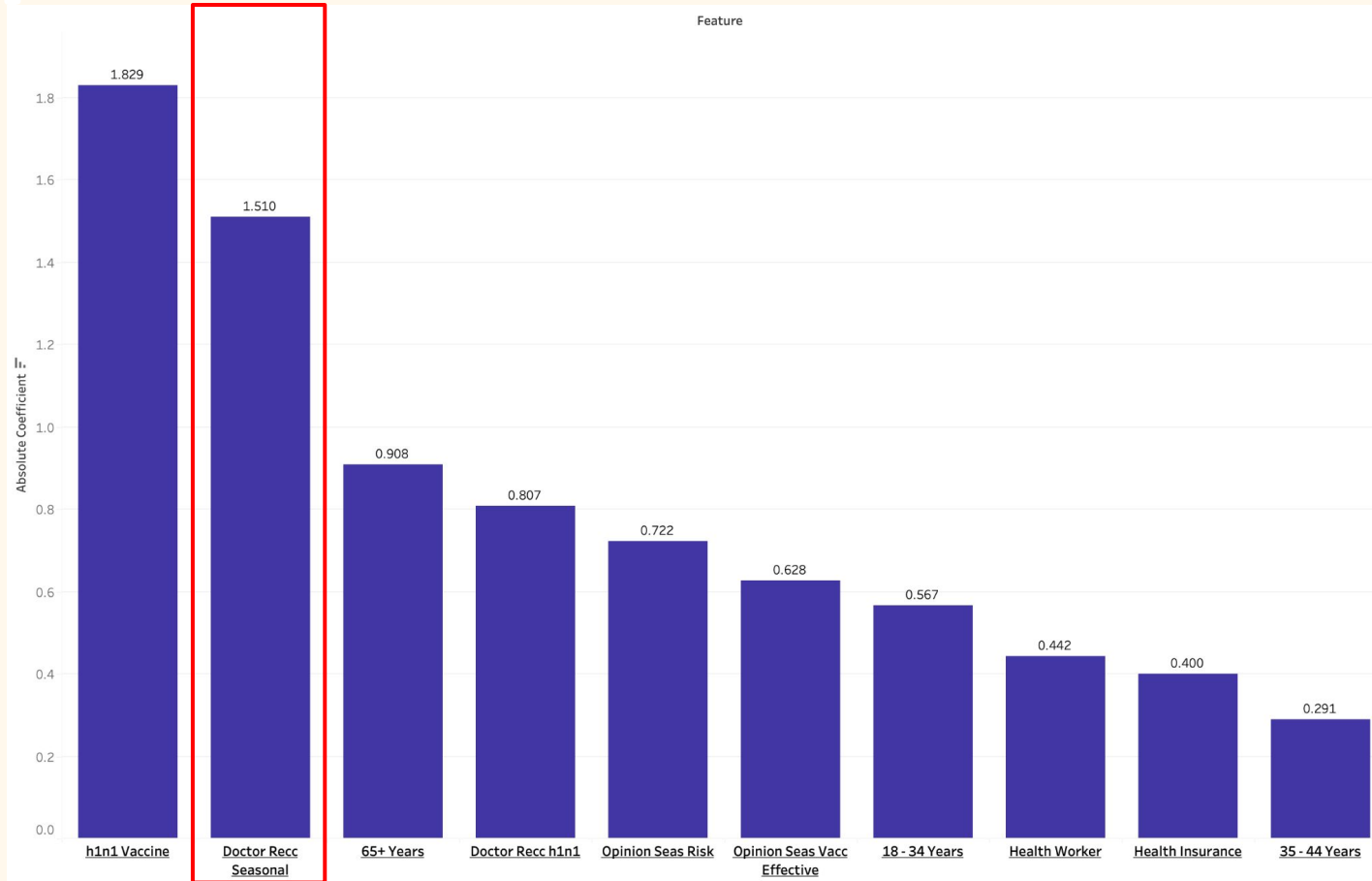
**Top 10 Influential  
Factors**



**Targeted Vaccination  
Promotion**

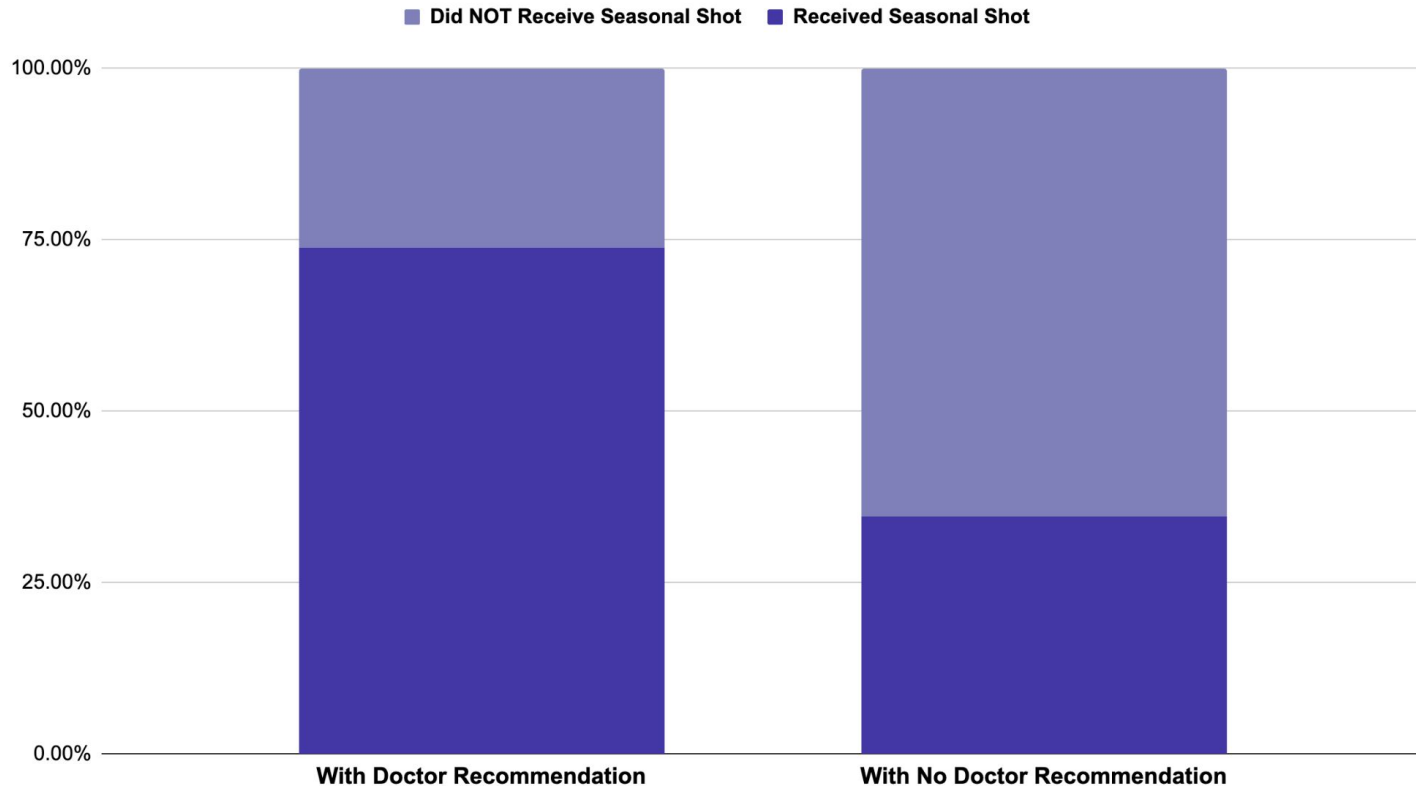


# Top 10 Influential Factors



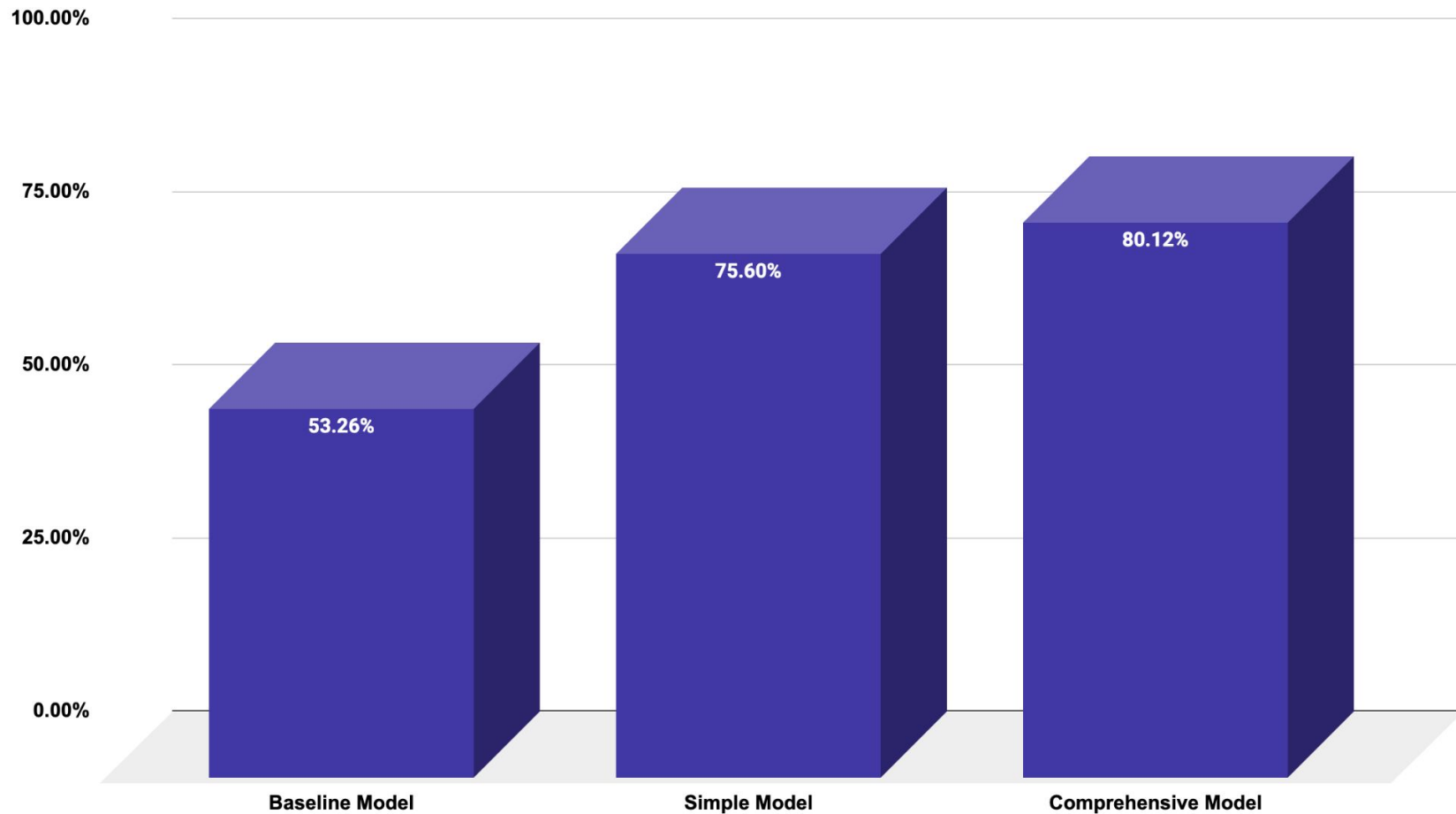
# Why Is Doctor Recommendation So Important?

Vaccine Administration Percentages





## Accuracy Across Models



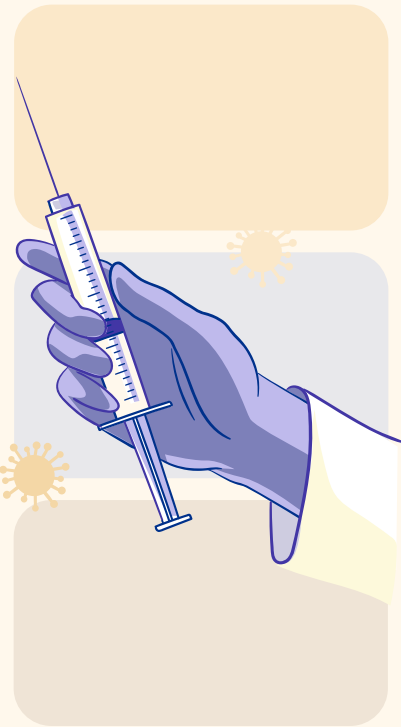
# What We Recommend



**Final Model**

**Simple  
Model**

**Doctors**

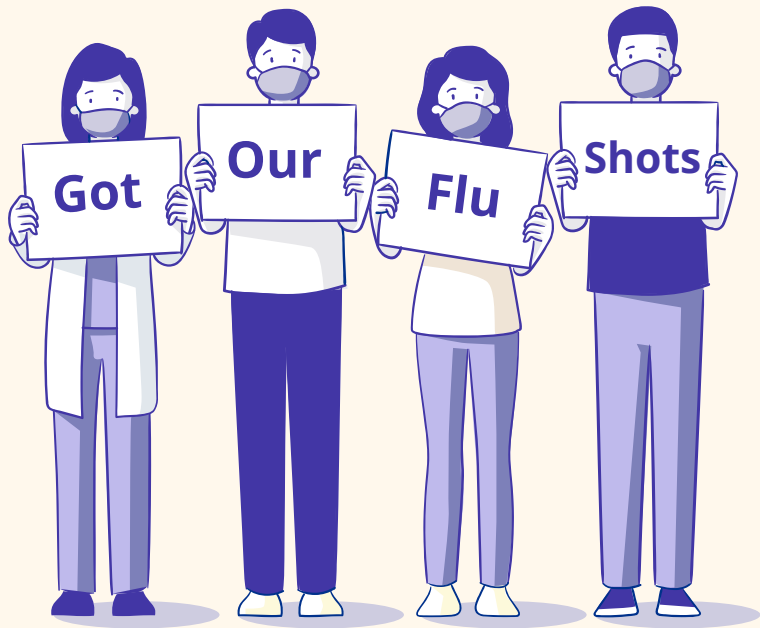


Predict vaccination  
status with 80%  
precision

78% precision with  
only 4 data points

Recommend the  
vaccine to patients  
whenever possible

# What Next?



**Data collection**



**Determine the why**

# Thank You!

Lydia Cuffman



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[GitHub](#)

