# Seasonal Flu Vaccine analysis

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#### Overview

• An analysis of the National 2009 H1N1 Flu Survey to determine what factors are more likely to lead a person to receive the flu vaccine

### Outline

• Business Problem

• Modeling

Evaluation

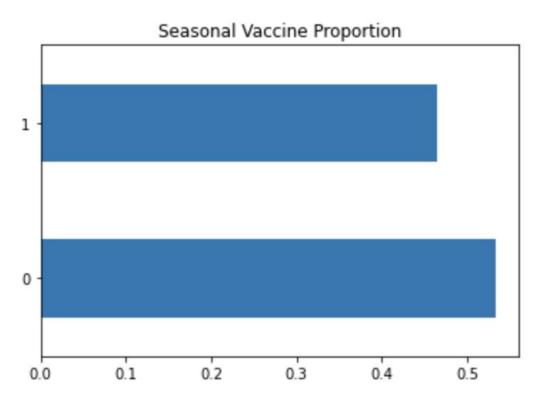
Conclusion

#### **Business Problem**

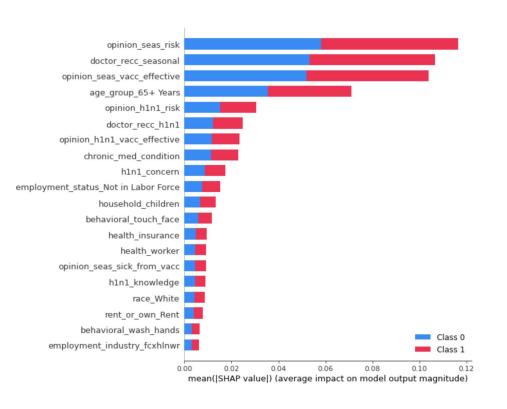
• Pharmaceutical company wants to understand the driving factors for consumers when developing a new flu vaccine

• Find the most important features to use in marketing campaign

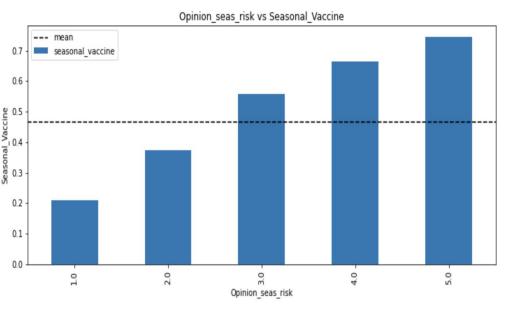
## Modeling



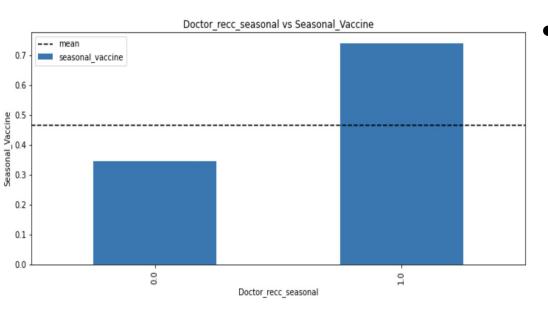
 Utilizing predictive modeling to find key features for receiving seasonal flu vaccine



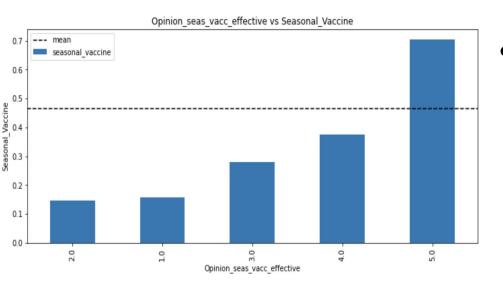
• Precision score of 0.782



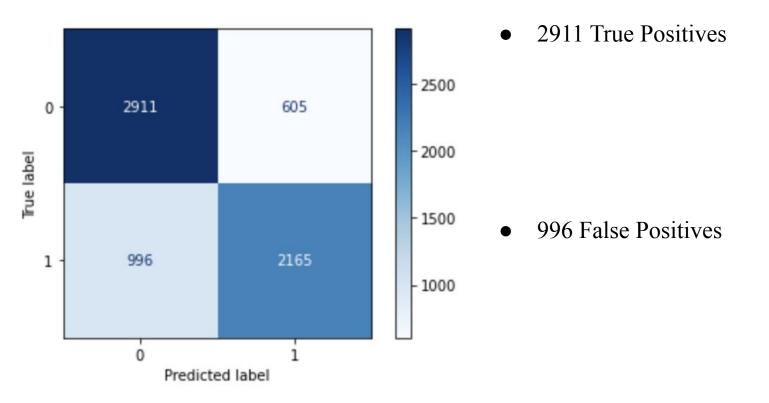
 Consumers who believed were at a higher risk of contracting the flu received the seasonal flu vaccine more compared to those thinking they were at a lower risk



Consumers who had seasonal flu vaccine recommended to them by their doctor received the vaccine more than those who were not recommended by their doctors.



• Consumers who strongly believed seasonal flu vaccine was effective received the vaccine more than those with less belief in the vaccine's effectiveness



#### Recommendations

When marketing the vaccine:

• Discuss the vaccine's effectiveness

• Suggest speaking with Primary Care Physician

• Explain risk of contracting flu without vaccine

# Thank you!

Questions?

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