

# **The Flu Explainer**

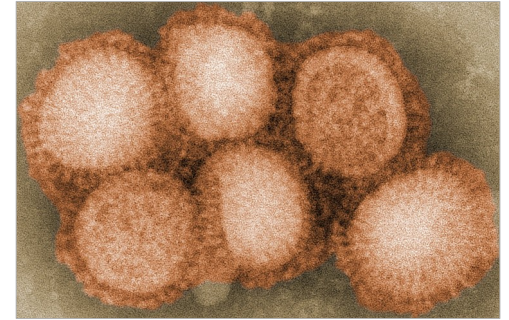
## **An Explanation Interface**

# Agenda

- 1) Context
- 2) Data Set
- 3) Interface Design Process
- 4) Feedback
- 5) DEMO

# Context

- Early 2009 H1N1 - Swine Flu - spread across the globe
- Between 151.000 and 575.000 deaths globally
- Vaccines became available at end of 2009
- US Department for Health and Human Services (DHHS) initiated a phone survey called “The National 2009 H1N1 Flu Survey”
- Data recorded late 2009/2010



# Data Source

DRIVEN DATA

Competitions

How it works

Partner with us

DrivenData<sup>LABS</sup>

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## HEALTH

### Flu Shot Learning: Predict H1N1 and Seasonal Flu Vaccines

Can you predict whether people got H1N1 and seasonal flu vaccines using information they shared about their backgrounds, opinions, and health behaviors?



Beginner practice



1 year left



6,645 joined



Join competition →

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How to compete

## Overview

Can you predict whether people got H1N1 and seasonal flu vaccines using information they shared about their backgrounds, opinions, and health behaviors?

# Data Set

Around 26.000 rows of data

Targets variables:

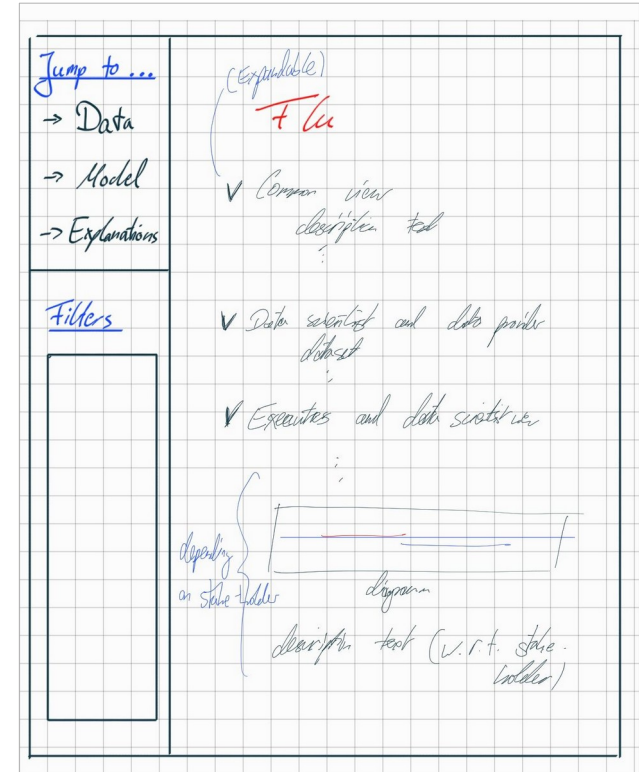
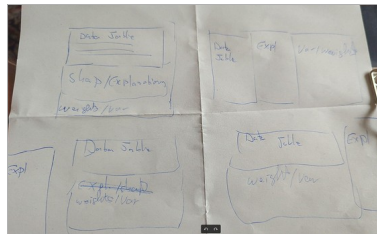
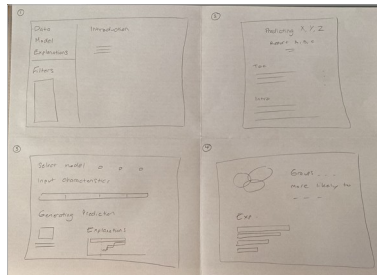
- Respondent got seasonal flu vaccine (binary)
- Respondent got H1N1 vaccine (binary)

Features consist data about

- social, economic, and demographic background
- opinions on
  - risks of illness
  - vaccine effectiveness
- behaviors towards mitigating transmission

# Interface Design Process

- Crazy 4 Sketching
- Decision: could be done with Streamlit



# Feedback

- **Adding pictures** to improve overall appearance
- Adding **appropriate icons** to make it more self-explaining
- **Highlighting** additional information **drop downs** using Icons
- Improving data summary by adding an **additional categorical view**
- Mitigating long loading periods by adding a **progress bar**

**Demo Time!**



# Sources

- H1N1 picture : [https://en.wikipedia.org/wiki/File:H1N1\\_navbox.jpg](https://en.wikipedia.org/wiki/File:H1N1_navbox.jpg)
- Data Source, Challenge: <https://www.drivendata.org/competitions/66/flu-shot-learning/page/210/>