

# Stroke Risk Prediction

Presenter - Jonathan Pakele Jr.



# Topics to cover

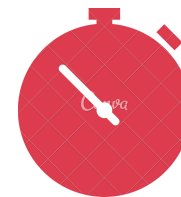
Order from left to right



The Data



Statistical Model



Practical Application



Future work



Thank you

# The Data & Acknowledgement



## Origins

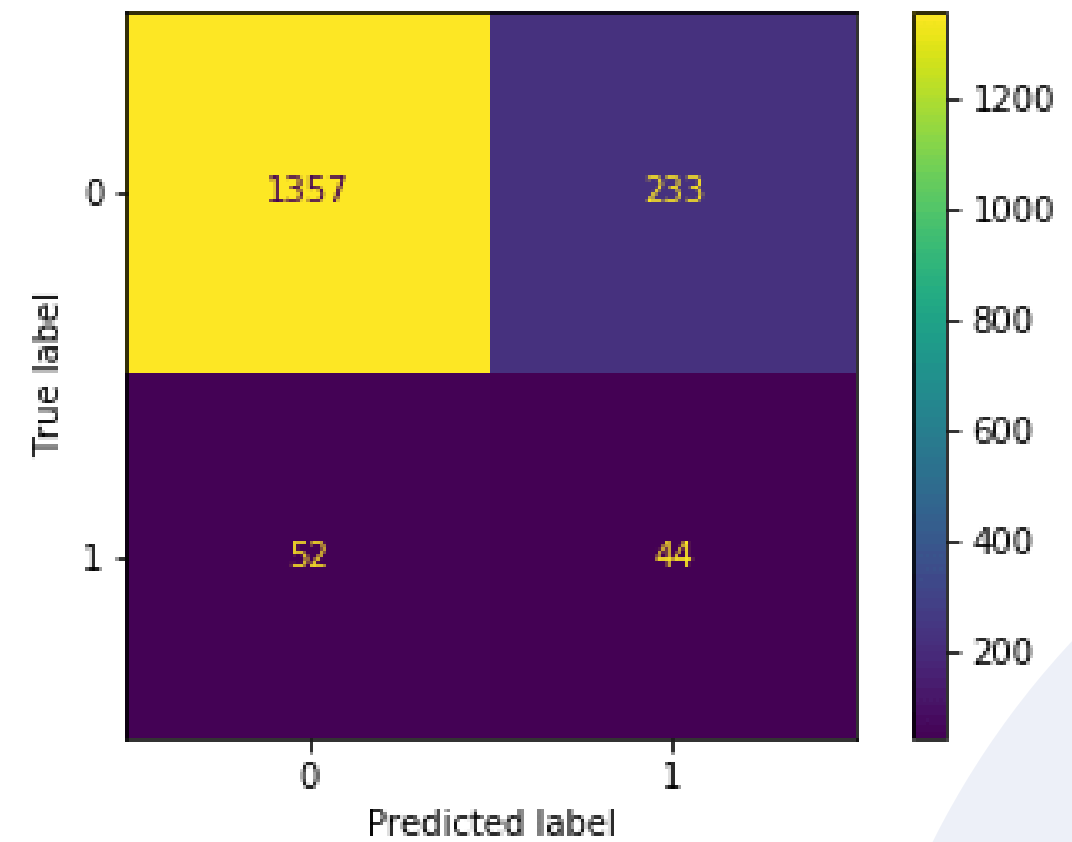
Data came from username 'fedesoriano' from Kaggle.com

Origins of dataset are unknown and validity is questionable.

## Reason for selected Dataset

Data can be viewed a training for potential in applying real-world data.

# The Model



## Accuracy

Predict 74.8% if a patient will or will not be at risk of heart correctly.

## Safe Prediction

Only a minimal Aprox. 2.1% of patients predicted to be 'not at risk' will be misdiagnosed

## Caveat

Model was purposefully made to predict with as few false negatives as possible to mitigate potential harm.

# Practical Application

## Use for Family Physicians

Model was made to be as generally applicable as possible since cases of stroke have existed in all age and health groups

## Meant to streamline a process

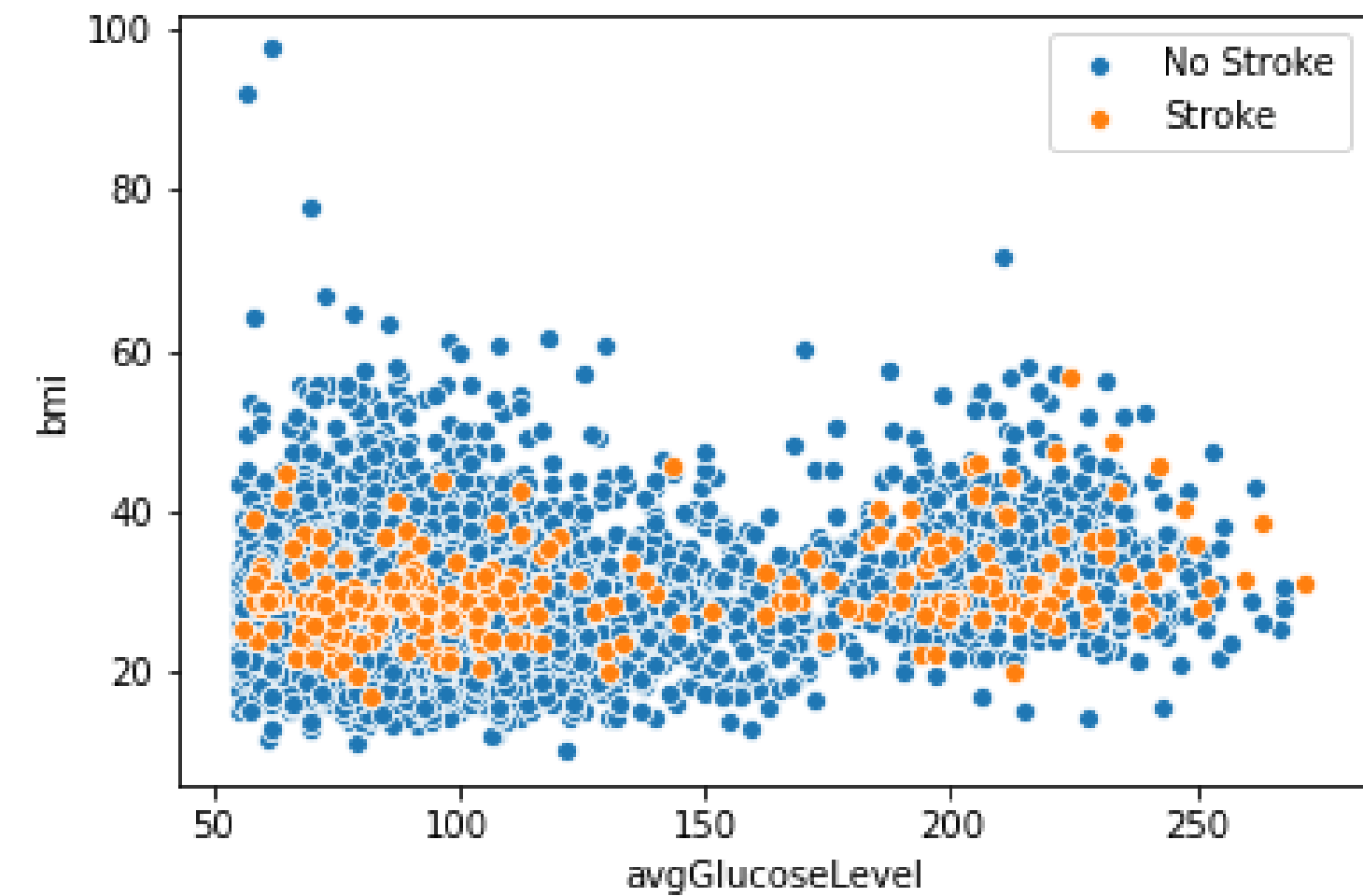
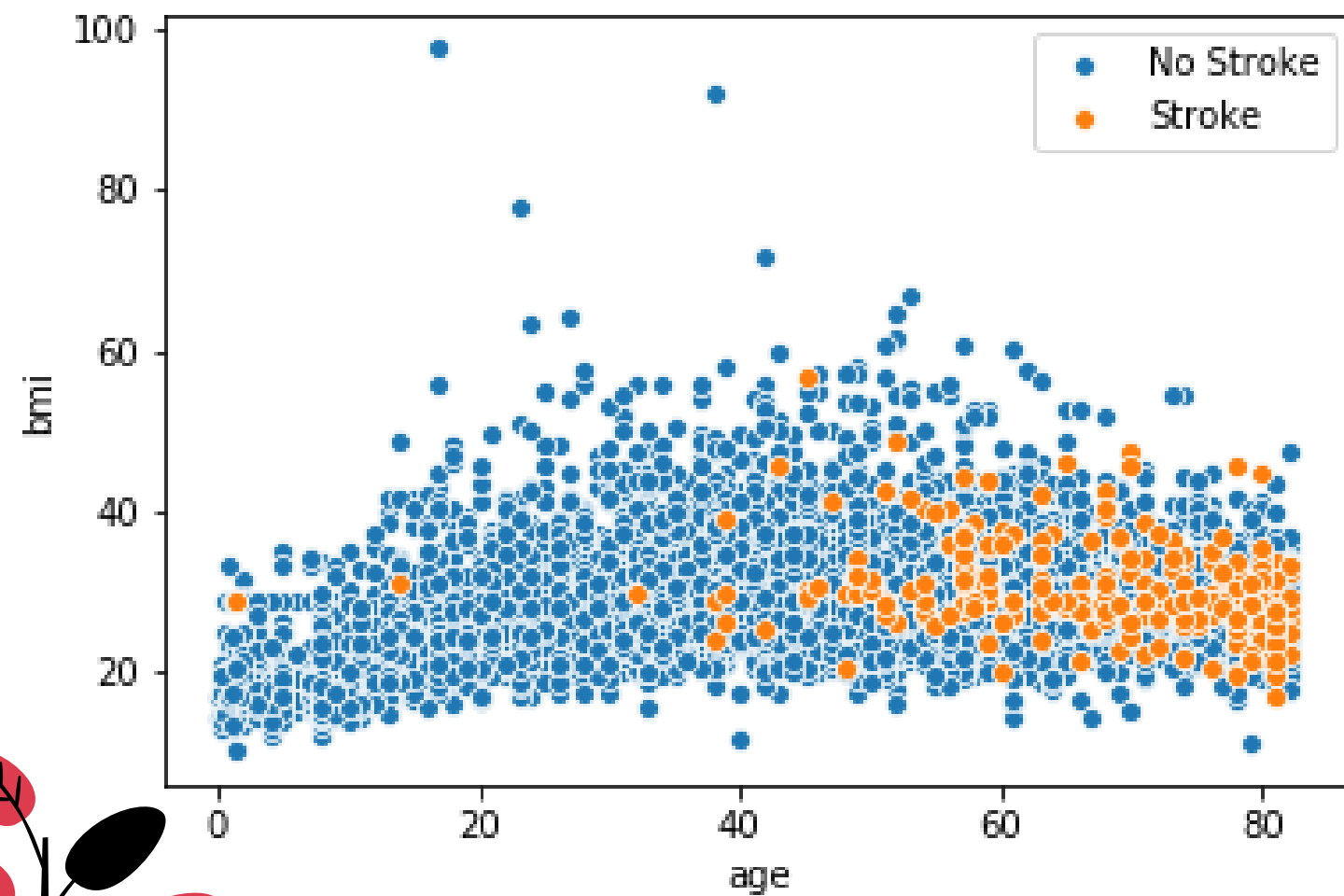
To help produce a list of clients and patients who may be at risk of a stroke rather than having to determine risk on a case by case basis

## Applicable to a list of clients

A list can be made for staff to make courtesy calls and enable clients to take an active approach to their own health



# IMPROVEMENTS CAN BE MADE FOR MORE SPECIFIC GROUPS



**Thank You!**  
**Stay in touch!**

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