

The background is a light blue gradient. On the left, a teal stethoscope is coiled, with its chest piece at the top and a heart icon at the bottom. The heart icon is orange with a white ECG line. Several pills are scattered around: a blue and white capsule, an orange and white capsule, and a solid blue pill. There are also decorative elements like a grid of small teal dots in the top center and bottom right, and a single teal dot in the top right.

Heart Disease Prediction for Fitbit Users

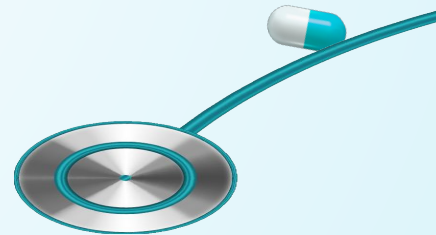
Pramila Chaudhary

Fitbit Active Users



Number of Active User in 2020:

31 million





Why Heart Disease?



Estimated number of people die due to Heart related disease in US

659,000[•] People

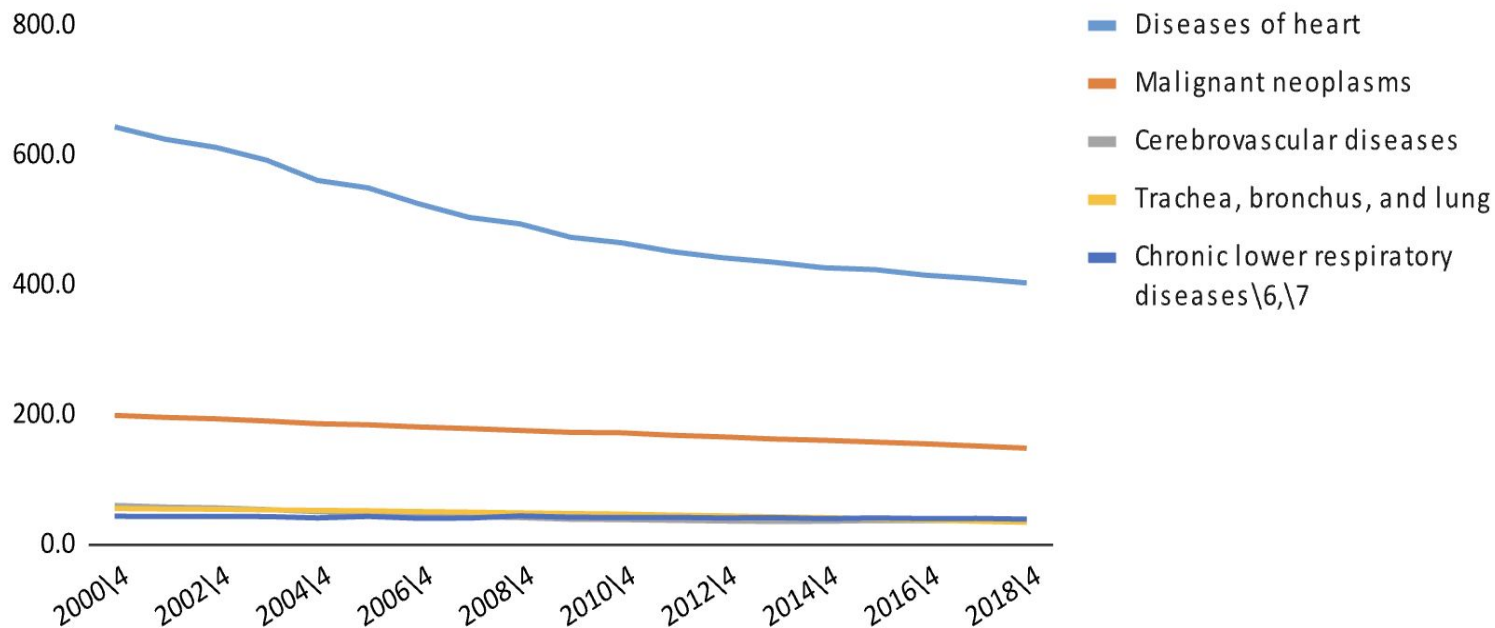




Cause of death due to various diseases



Cause of death in the year 2000 to 2018



Goal

Predict heart disease at early stage for FITBIT users

Solution path

- ❖ Identify Correlated features
- ❖ Exploratory Data Analysis
- ❖ Develop a Linear Regression model for predicting heart disease



Methodology



Data Collection

- Heart Disease data set from kaggle
- cause of death data from cdc.gov

Cleaning & EDA

- Data Cleaning and EDA
- Google sheet

Visualizing

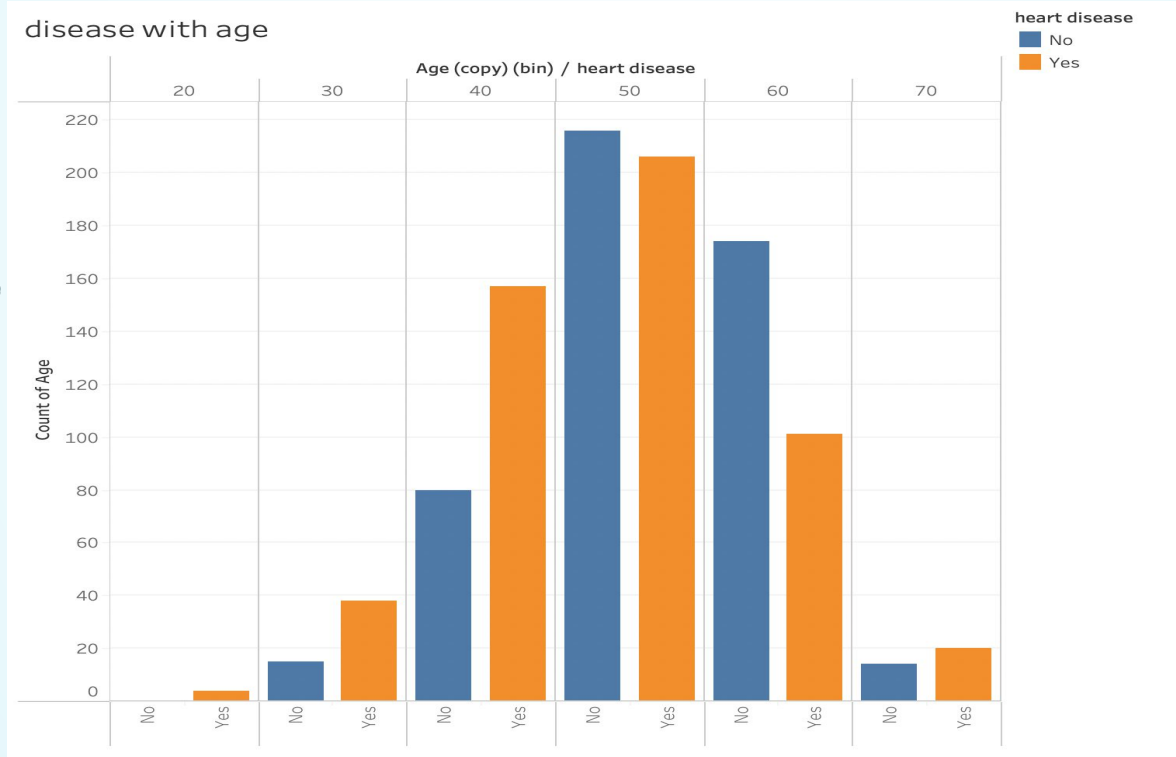
- In Tableau
- In Google sheet

Future work

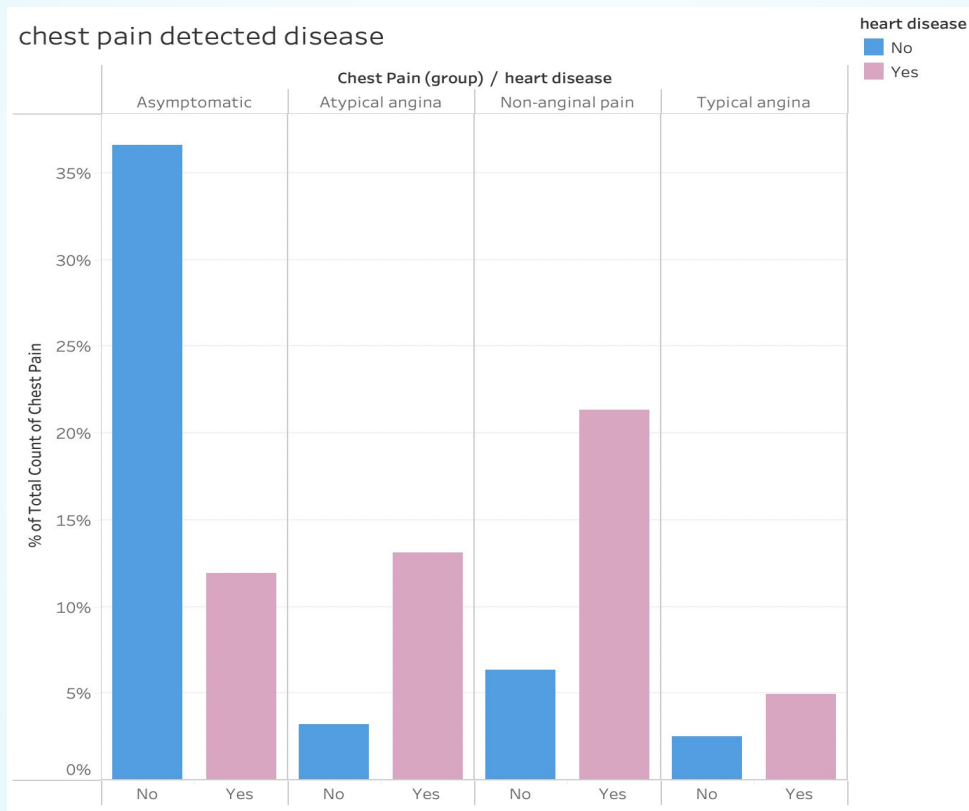
- Develop a Linear Regression model



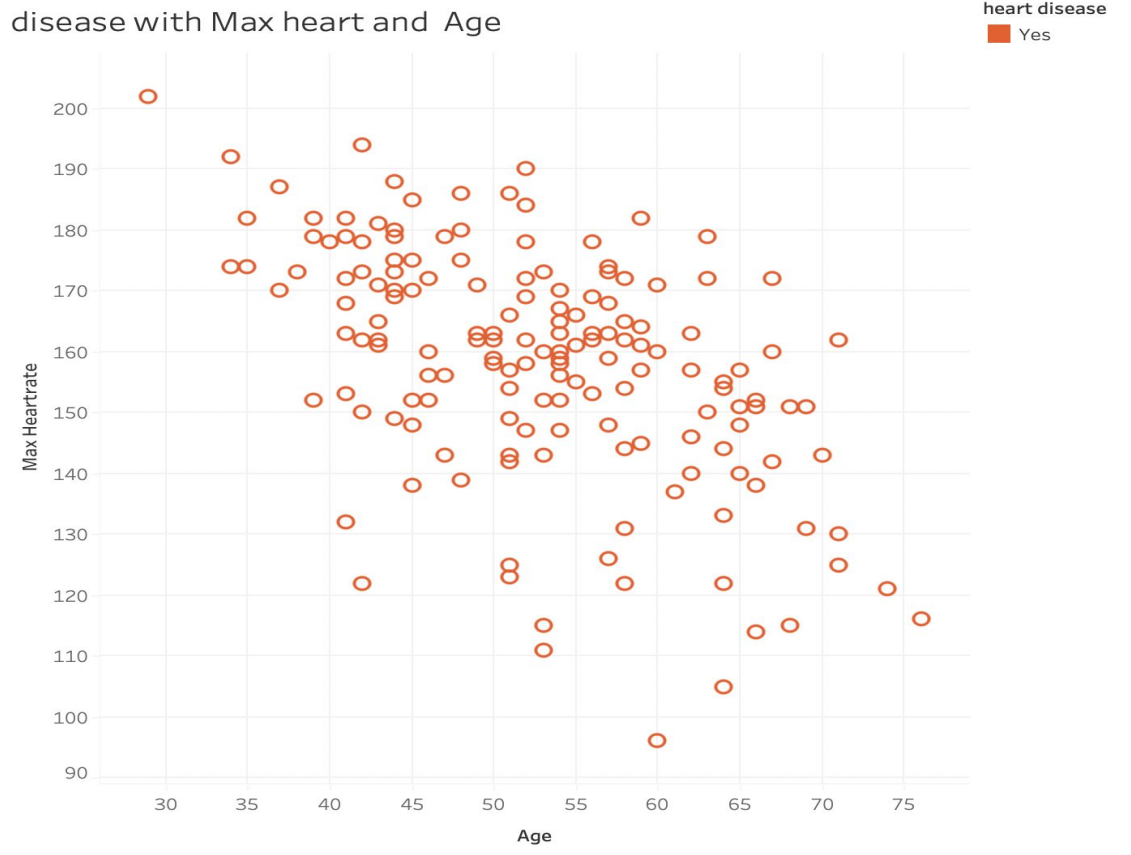
Disease with Age



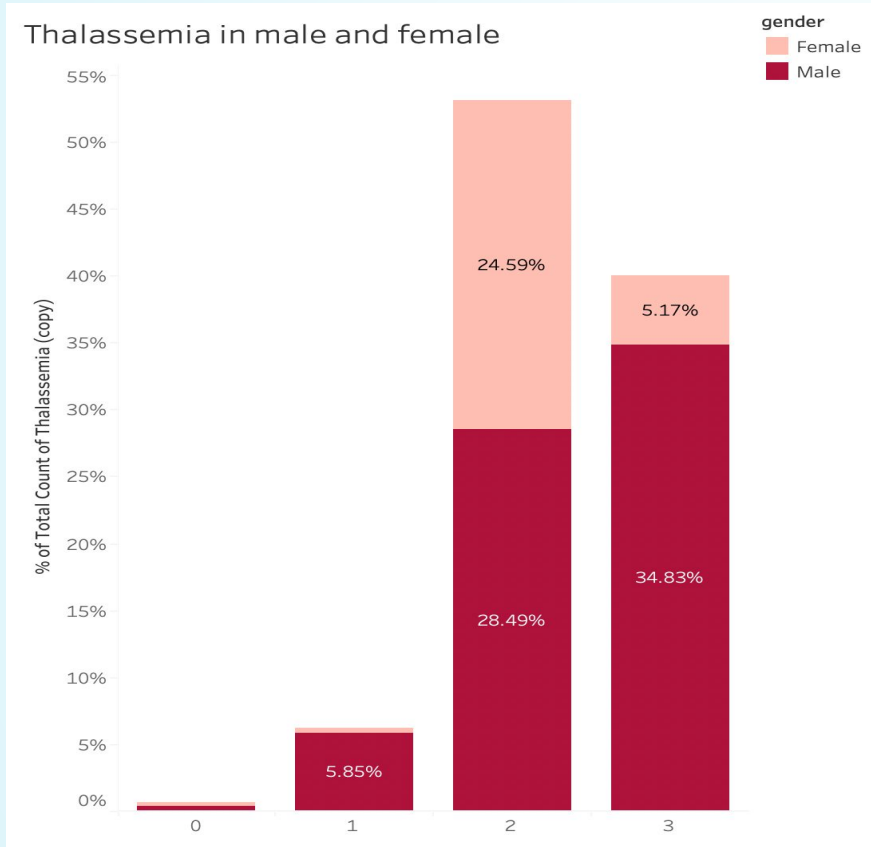
Disease related to Chest Pain



Relation b/w age and max heart rate



% of people in various type of blood disorder



- 0 - No Defect
- 1- Fixed Defect (No blood flow in some part of the body)
- 2- Normal blood flow
- 3- Reversible defect



Conclusion

- Age, Types of chest pain, Max heart rate, Resting Blood pressure and Thalassemia showed strong relationship.
- People above age 50 are more likely to have heart disease
- Target people above age 50

Future Directions



- Include More variables such as weight, Family health history, eating habits etc to the analysis.
- Develop a Linear Regression Prediction model.





Thanks!

Pramila Chaudhary



CREDITS: This presentation template was created by **Slidesgo**, including icons by **Flaticon**, and infographics & images by **Freepik**

Appendix

