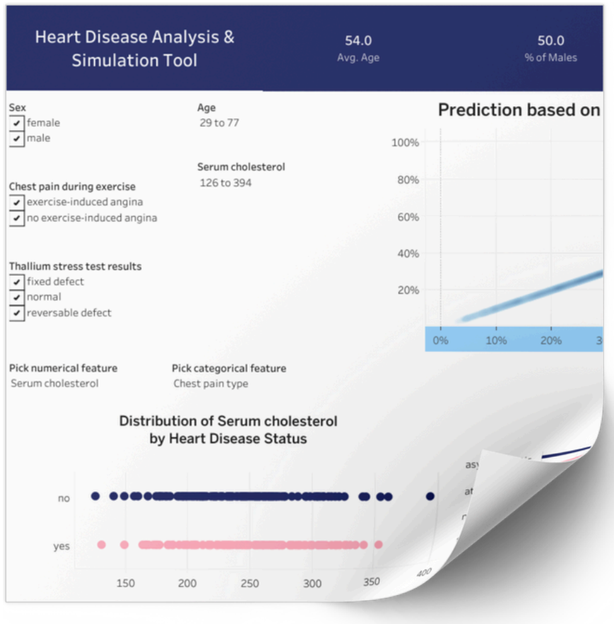
HEART DISEASE ANALYSIS DASHBOARD

Interactive data analysis and risk modeling using Tableau & Python.

http://bit.ly/4n86R9t



Introduction

Project Goal

- Understand heart disease patterns and predict risk.

Tools Utilized

- Tableau for visualization, Python for EDA and Logistic Regression.

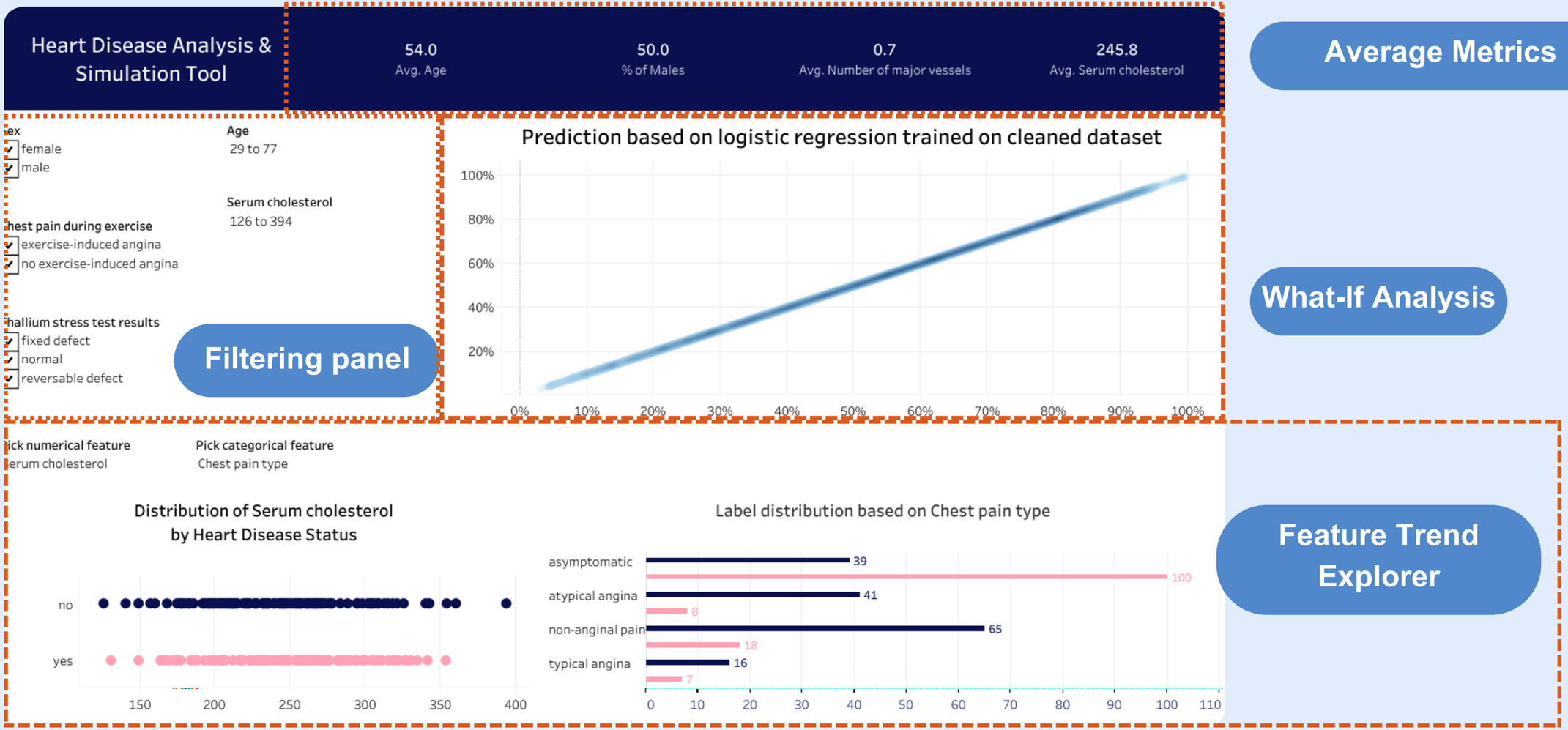
Data Workflow

- Data cleaning and modeling in Python notebook; dashboard for exploration.

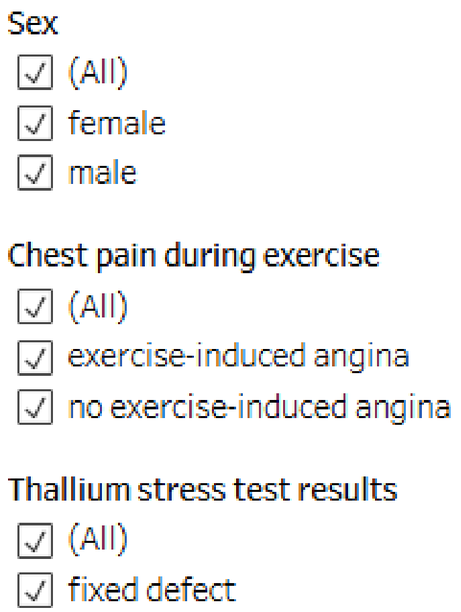
Dataset Description

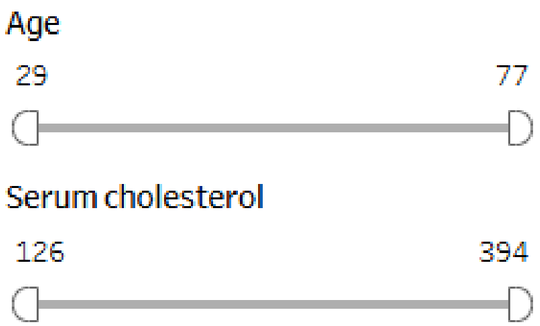
Source	UCI Heart Disease Dataset
Sample Size	294 (after cleaning)
Key Features	Cholesterol, ST Segment Slope, Chest Pain, etc.
Target Variable	Presence of Heart Disease

Dashboard Overview



How to Use: Filters Panel



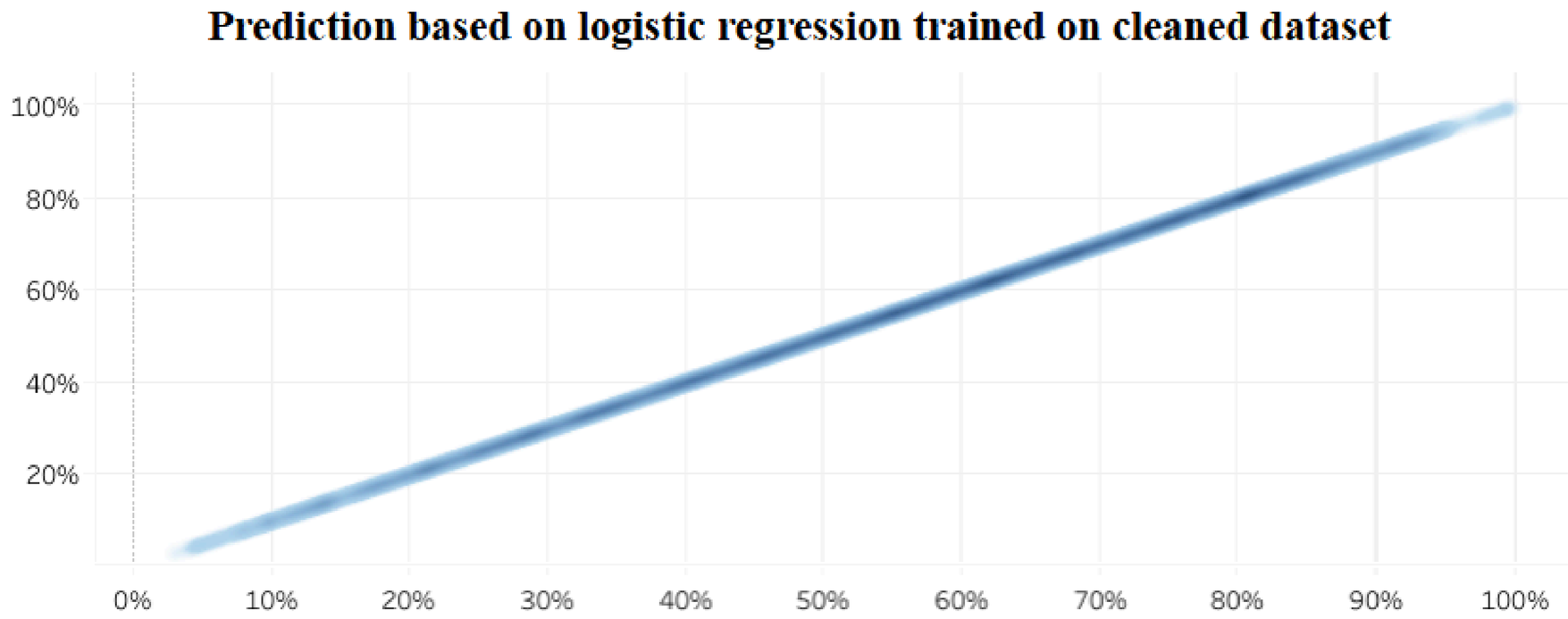


Type	Feature
Demographic	Sex, Age
Clinical	Chest pain during exercise Thallium stress test result

Dynamic Filtering

- Checkboxes and sliders enable filtering.
- Updates charts and scenario-based **predictions** instantly

Predictive Risk Line Chart



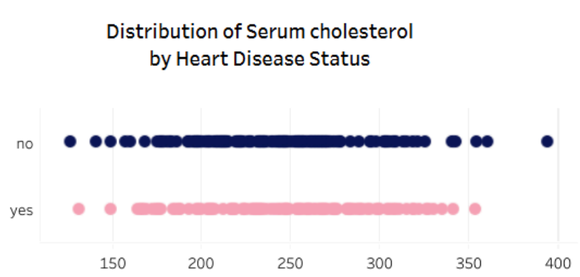
What-if analysis

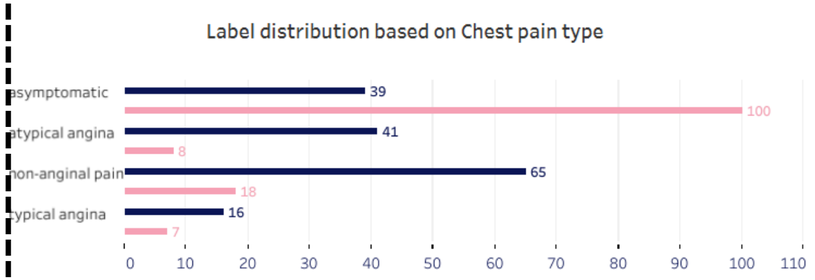
Filters serve as scenario inputs, yielding predicted risk percentages.

Risk prediction

It derives from a logistic regression model trained in a Python notebook.

Feature Trend Explorer





Numerical features

Categorical features

Feature Trend

Dynamic chart showing how the selected metric varies across heart disease outcomes.

Pick numerical feature

Serum cholesterol

Pick categorical feature

Chest pain type

Pick features

Choose a feature to see how it relates to heart disease status.

THANK YOU!