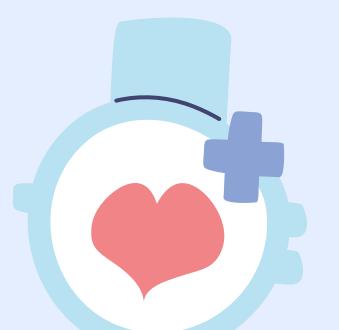
Predicting Heart Attack Risk

Don't Guess the Signs.
Predict, Prevent, Protect.









Heart Disease: A Leading Cause of Death in Canada

According to Public Health Canada

Heart disease is the second leading cause of death in Canada, accounting for over 50,000 deaths annually.

1 in 3 cases go undiagnosed until severe symptoms occur.

Why is Early Detection Challenging?

Doctor Shortages

4.7 million Canadians lack a family physician (Statistics Canada 2023).

Limited Awareness

Early warning signs like high blood pressure or cholesterol are often ignored.

Testing Gaps

Rural and remote communities lack access to diagnostic facilities.







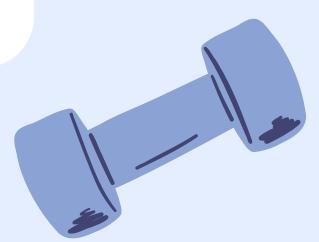
Proposed Solution



- Analyzes health data to predict heart disease risk.
- Factors considered: Diabetic, Physical Active, BMI, etc.
- Alerts users to seek medical attention before severe symptoms arise.



Early detection can reduce healthcare costs and save lives.





Data Overview



Source



<u>Kaggle</u>

Shape

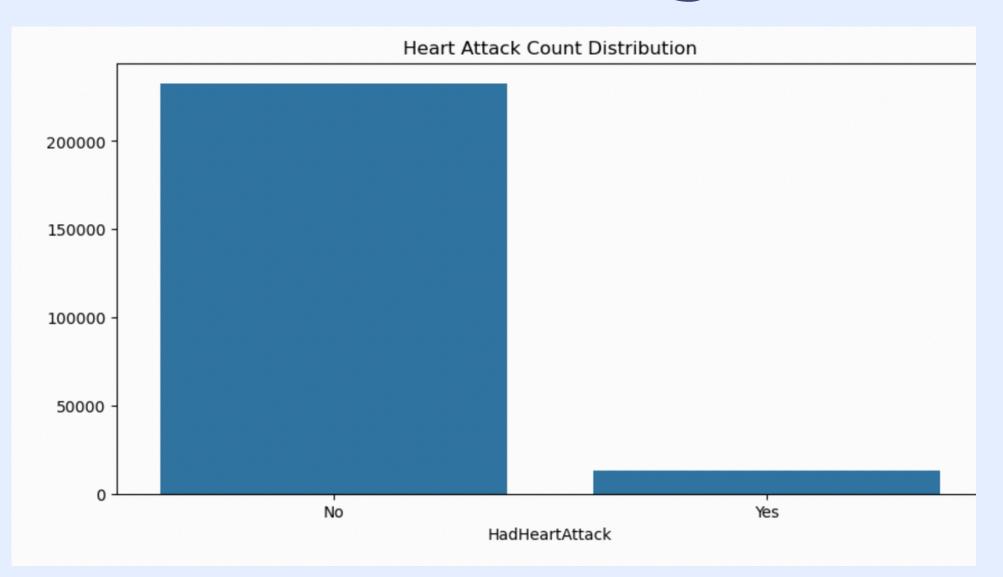


Rows - 246022 columns - 40 **Factors**

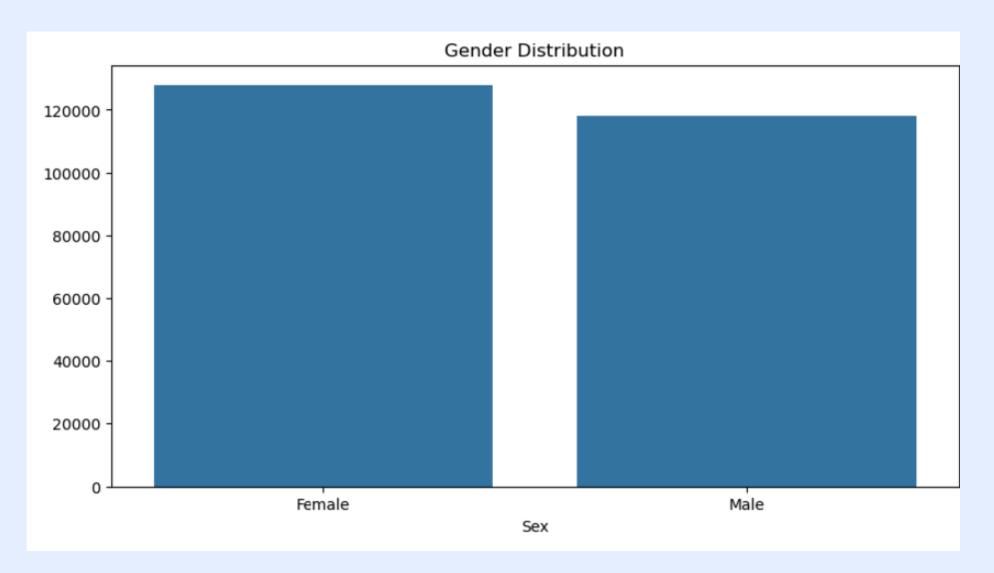


Age, Gender, Diabetic Physically Active etc.

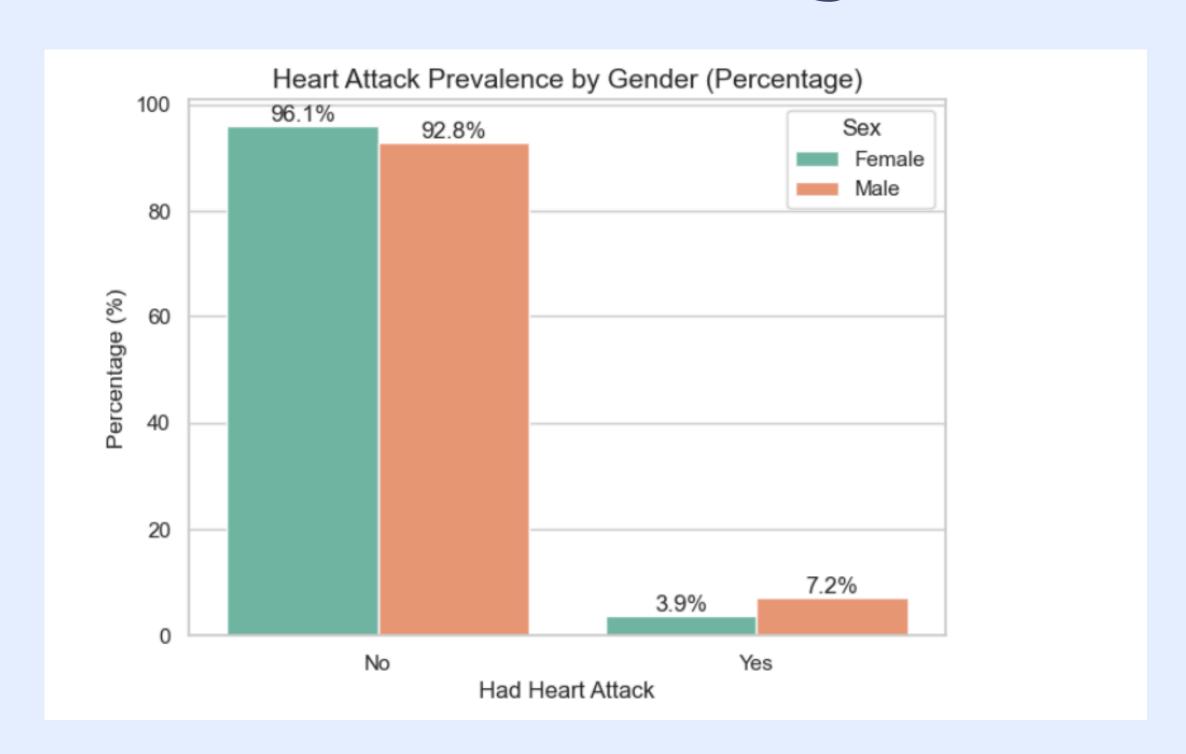




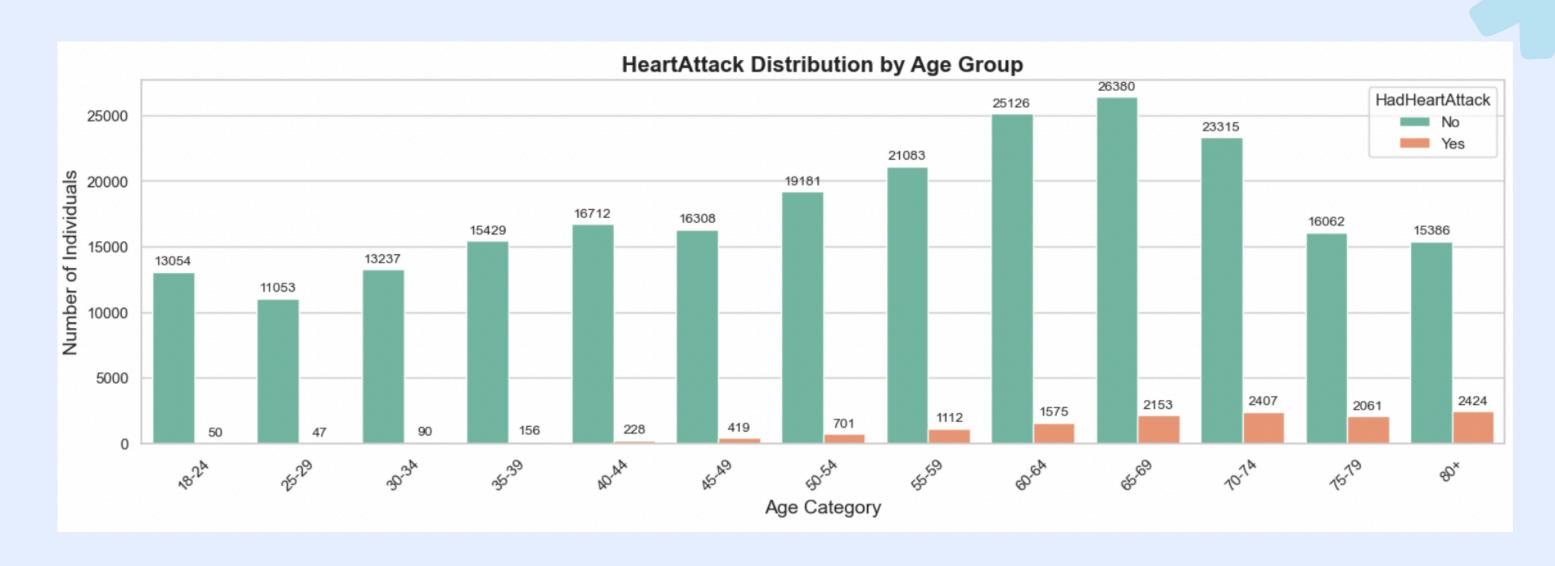
Had Heart Attack	232578	94.54%
No Heart Attack	13435	5.46%



Male	118207	48.05%
Female	127806	51.95%











Feature Engineering

Apply Logistic regression as a base Algorithm

Modal Optimization using other Algorithms

