Heart Disease Analysis

Applied Data Science with Python - Codecademy Bootcamp Contest

Dataset & Approach

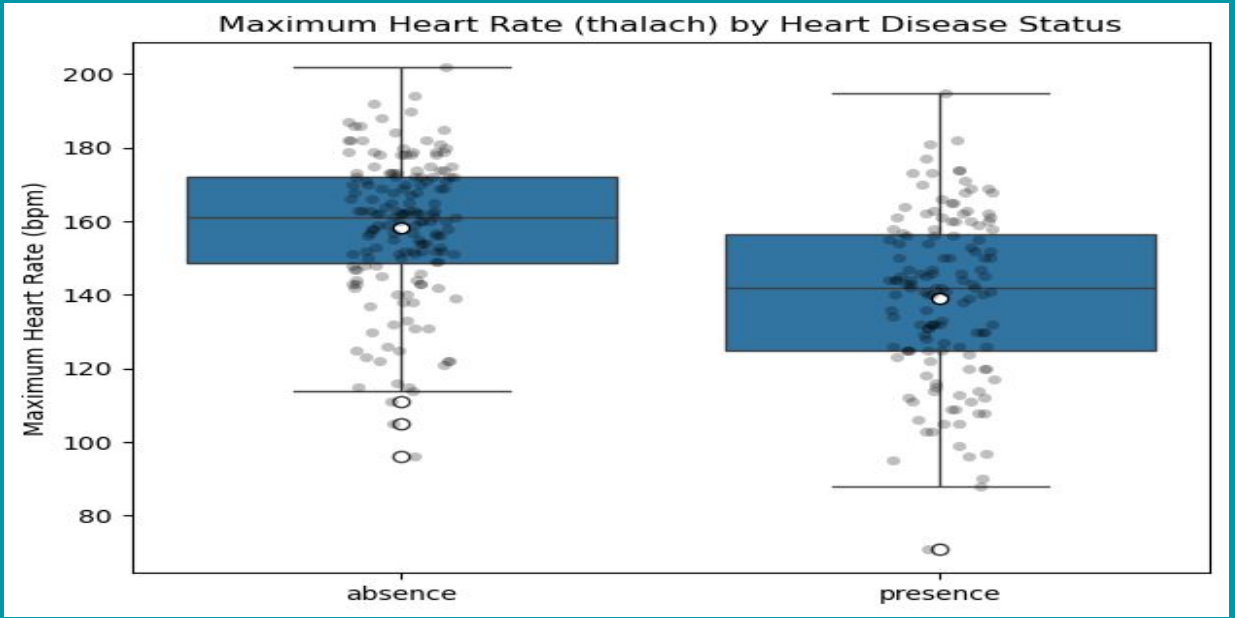
- 303 patient records from clinical evaluations
- Demographic and medical indicators
- Statistical hypothesis testing with visualization

Metabolic Risk Factors

- Heart disease patients show significantly higher cholesterol
- High fasting blood sugar is more prevalent than expected
- Metabolic risk is strongly associated with heart disease

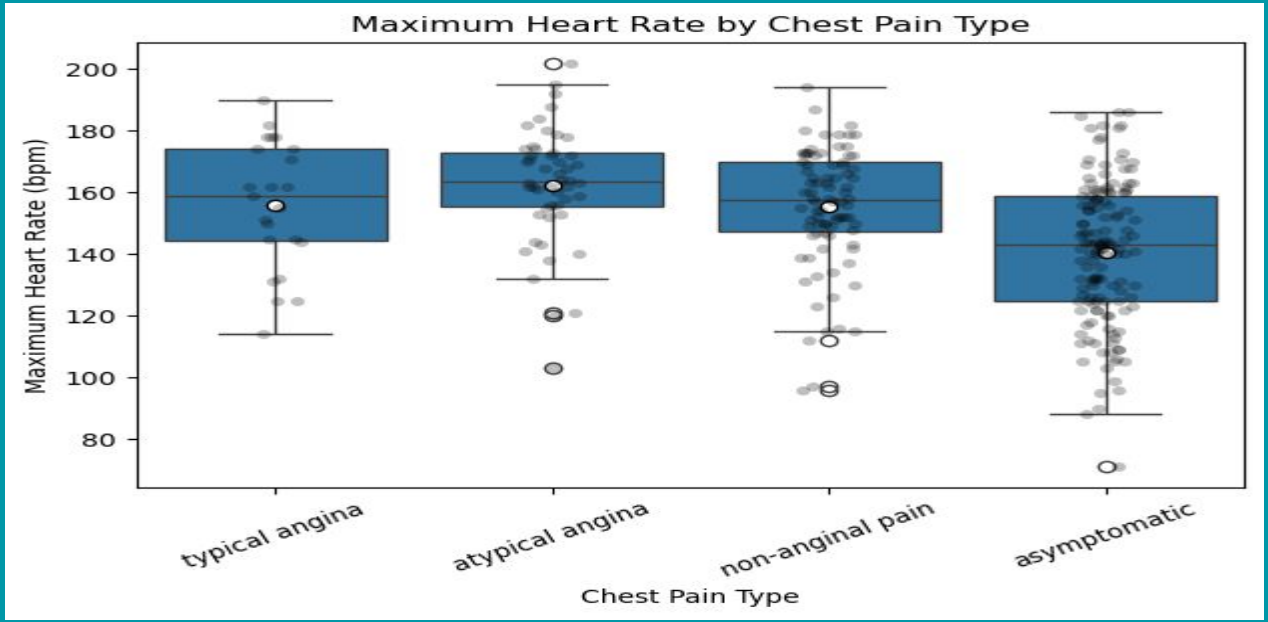
Exercise Performance & Heart Disease

- Lower maximum heart rate in heart disease patients
- One of the strongest predictors identified



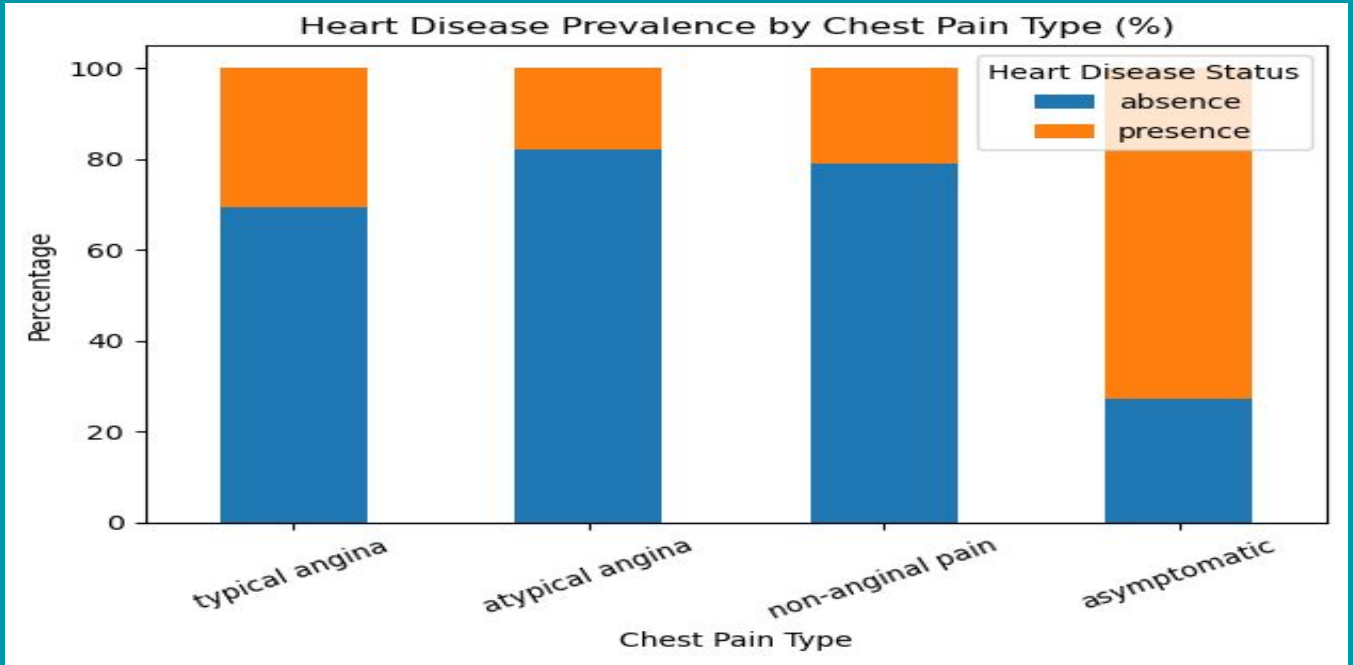
Age & Chest Pain Type

- Heart disease patients are generally older
- Exercise capacity differs by chest pain type
- Asymptomatic patients show lowest performance



Symptoms & Heart Disease Risk

- Chest pain type strongly linked to diagnosis
- Exercise-induced angina signals high risk



Key Takeaways

- Exercise performance is a powerful indicator
- Symptoms matter, even when subtle
- Metabolic risk factors remain critical
- Data and visuals strengthen clinical insight