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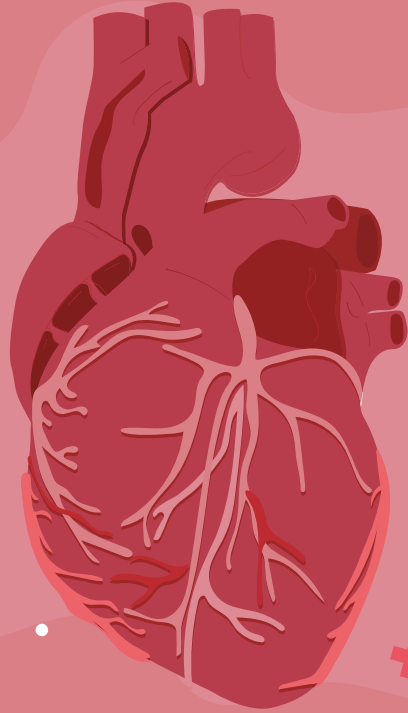
5

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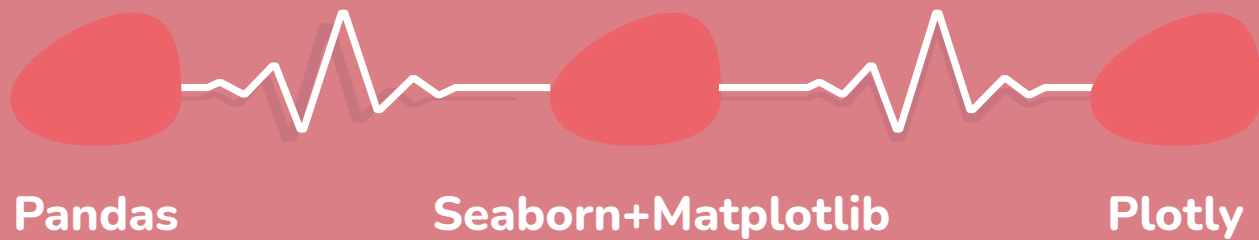
Introduction

A heart attacks occurs when the flow to the heart is blocked.

The blockage is often due to fat, cholesterol and can interrupt the blood flow and destroy the heart muscle.

The incidence rate is 190 by 10 000 people who are over 85.

Used libraries



The dataset: Heart attack analysis & Prediction [Heart]

303

rows

15

Columns: 13 Integers & 2 Decimals



The dataset: Heart attack analysis & Prediction [O2 Saturation]

3584

rows

1

Column of doubles



Example of features

1

**Maximum heart
achieved [thalach]**

2

**Fasting blood
sugar**

1 if >120 mg/dL, 0 otherwise

3

**Resting
electrocardiographic**

0: normal
1: anomalie
2: Probable left ventricular hypertrophy

4

**Resting blood
pressure**

In mm/Hg

5

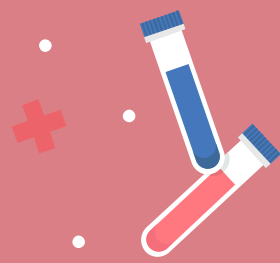
**Chest pain
category**

1: Typical angina
2: Atypical angina
3: Non-anginal pain
4: Asymptomatic

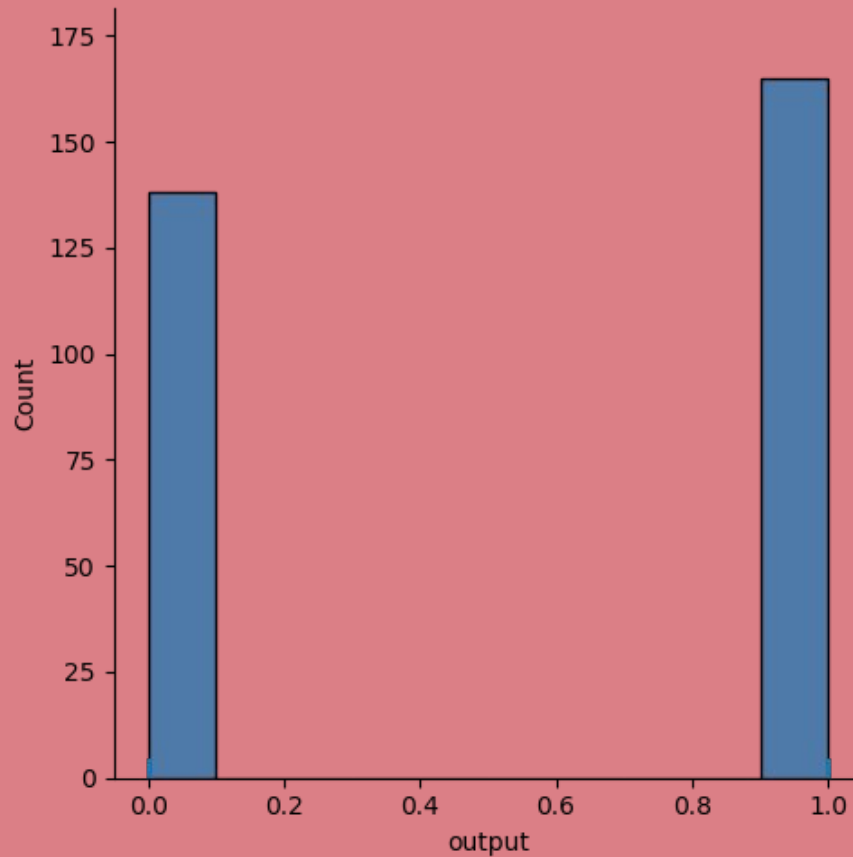
6

**Cholesterol
blood rate**

In mg/dL



Distribution of the outcome



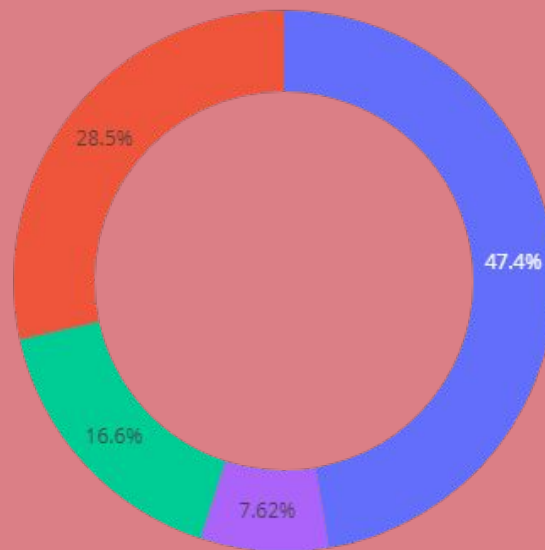
Presence of heart disease

0: No

1: Yes



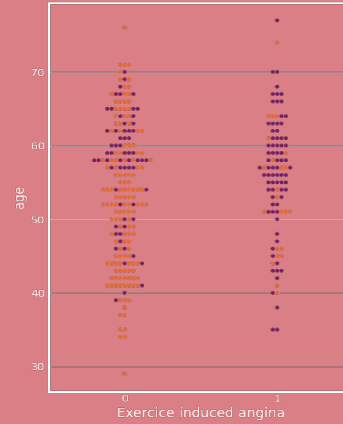
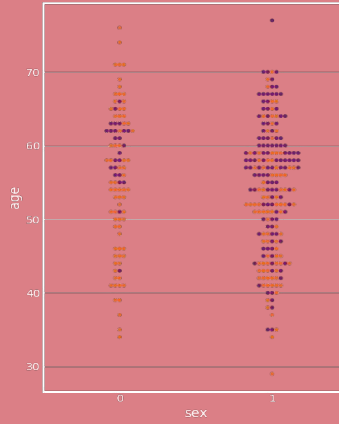
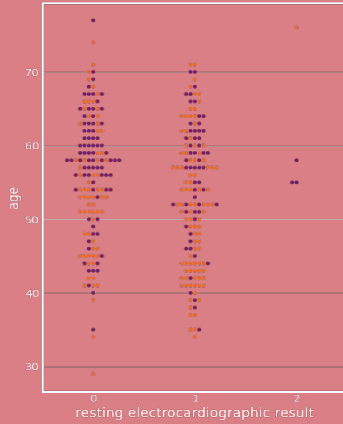
Chest pain



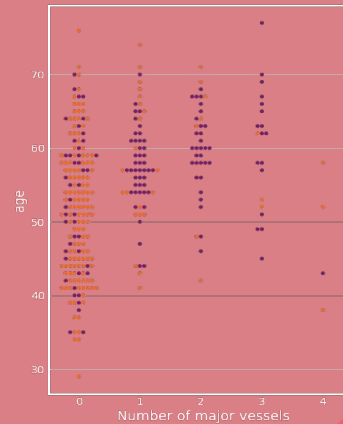
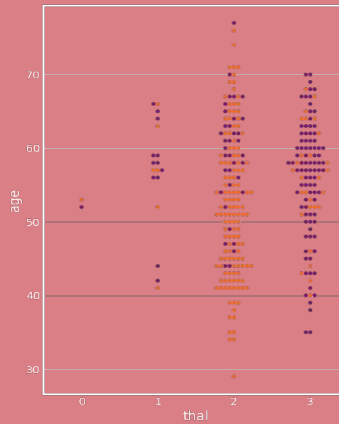
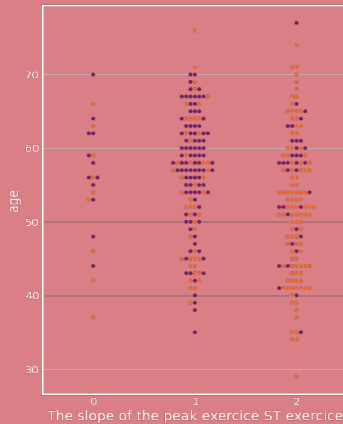
- 0 Typical angina
- 2 Non-anginal pain
- 1 Atypical angina
- 3 Asymptomatic



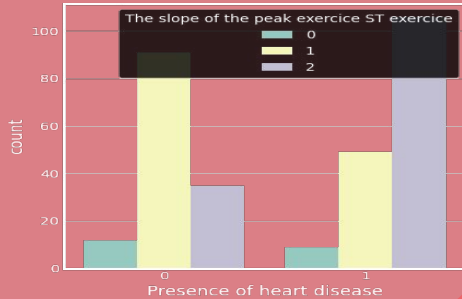
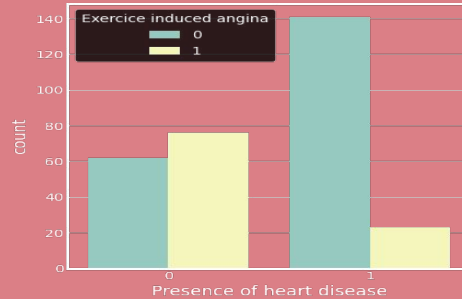
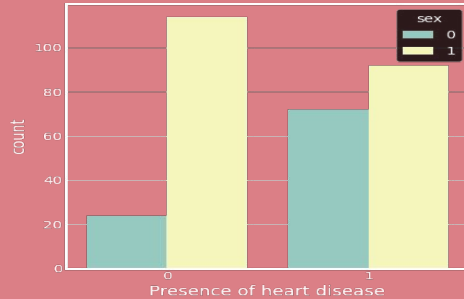
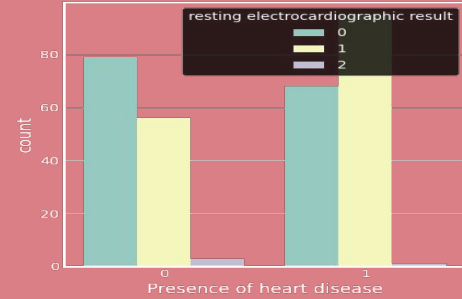
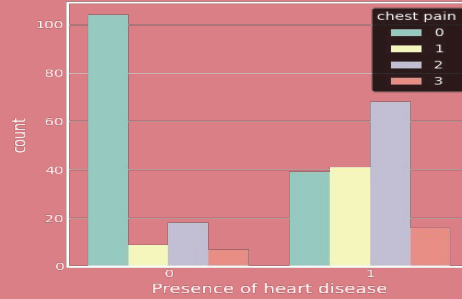
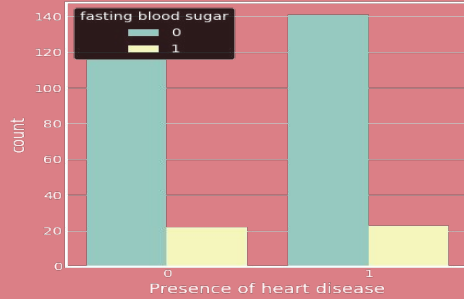
Distribution of data by categorical variable



Presence of heart disease

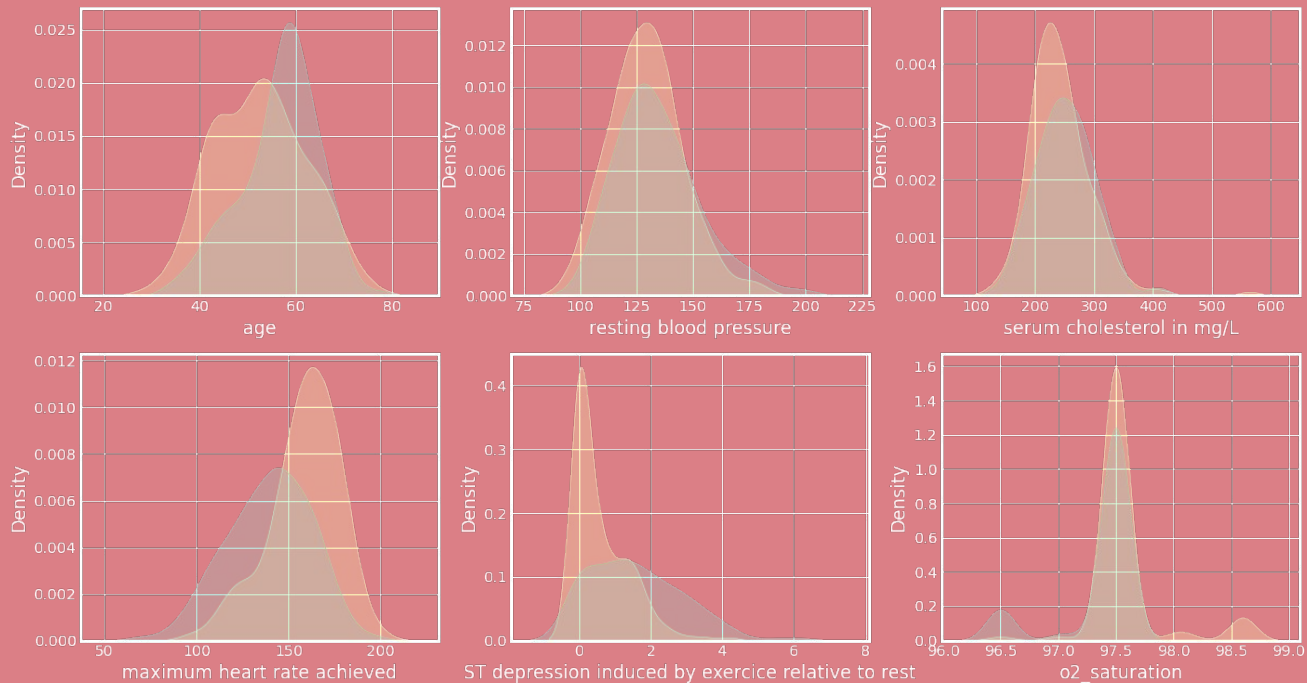


Distribution of outcomes by variable

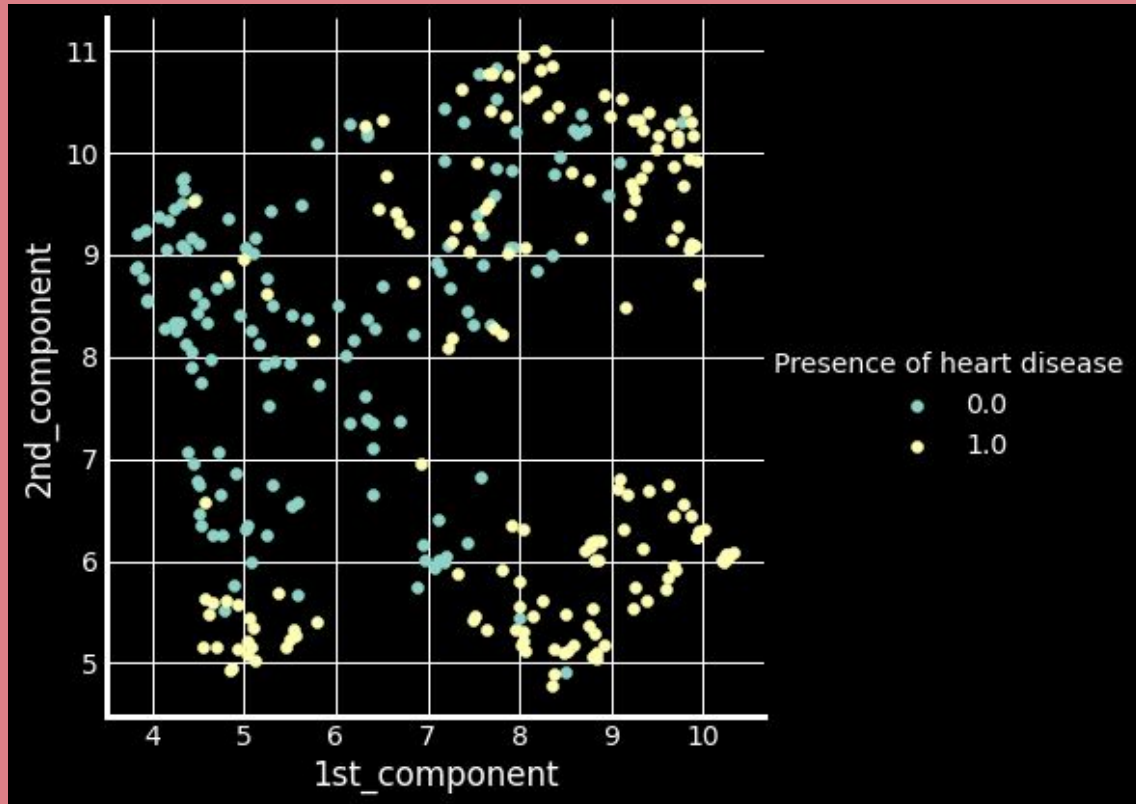


Distribution by outcome

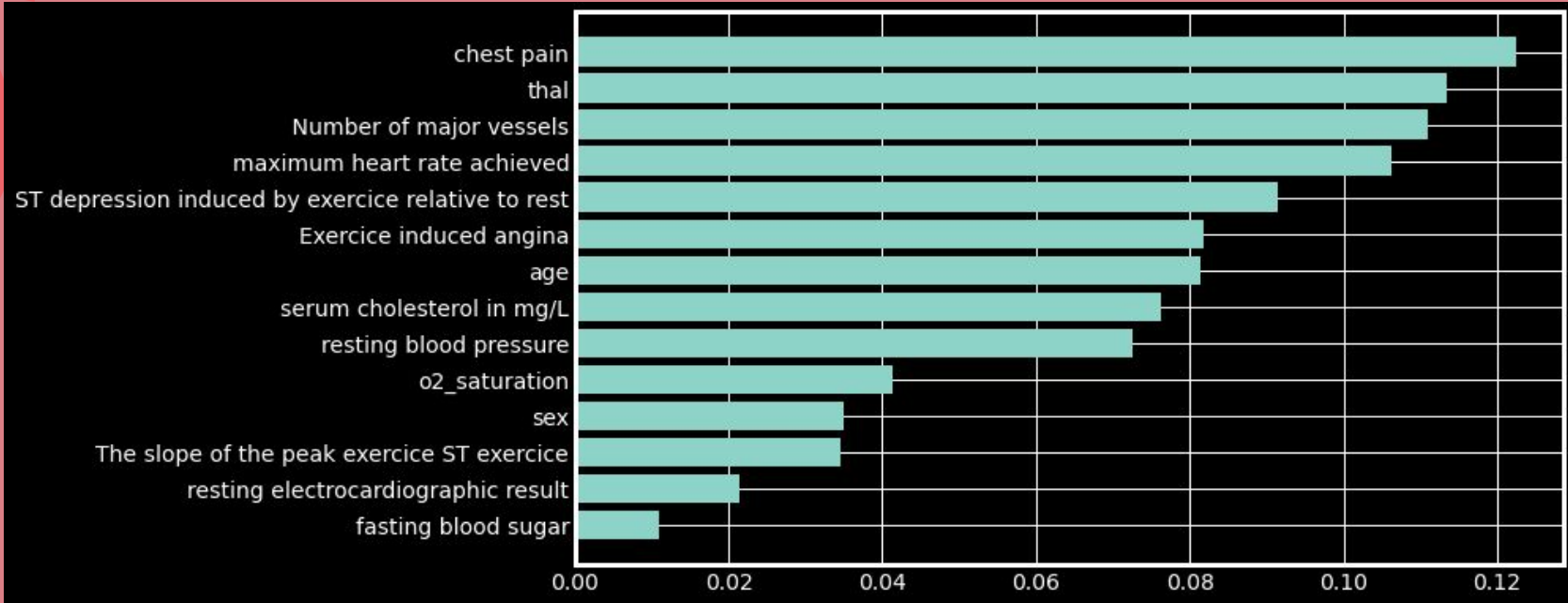
Distributions par classes



Umap dimension reduction



Random forest Feature importances



THANKS!

Does anyone have any questions?

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