DELIVERY SPRINT 1

WORKING WITH DATASET
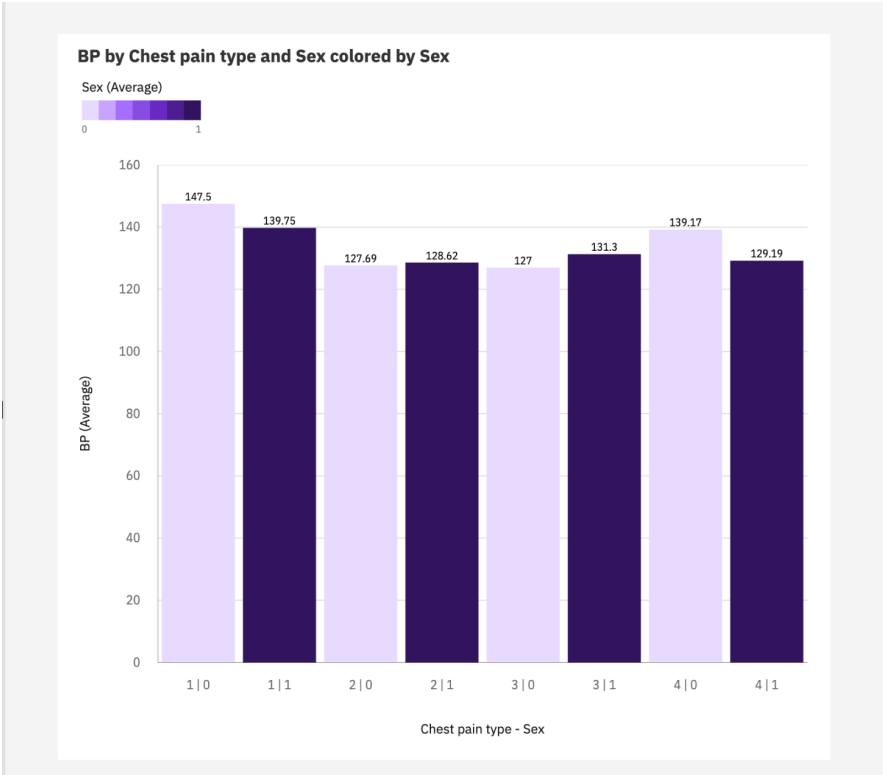
Date	17 November 2022
Team ID	PNT2022TMID53144
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board

EXPLORATION OF DATA

1. Age by Chest pain Type

2. BP by Chest pain Type

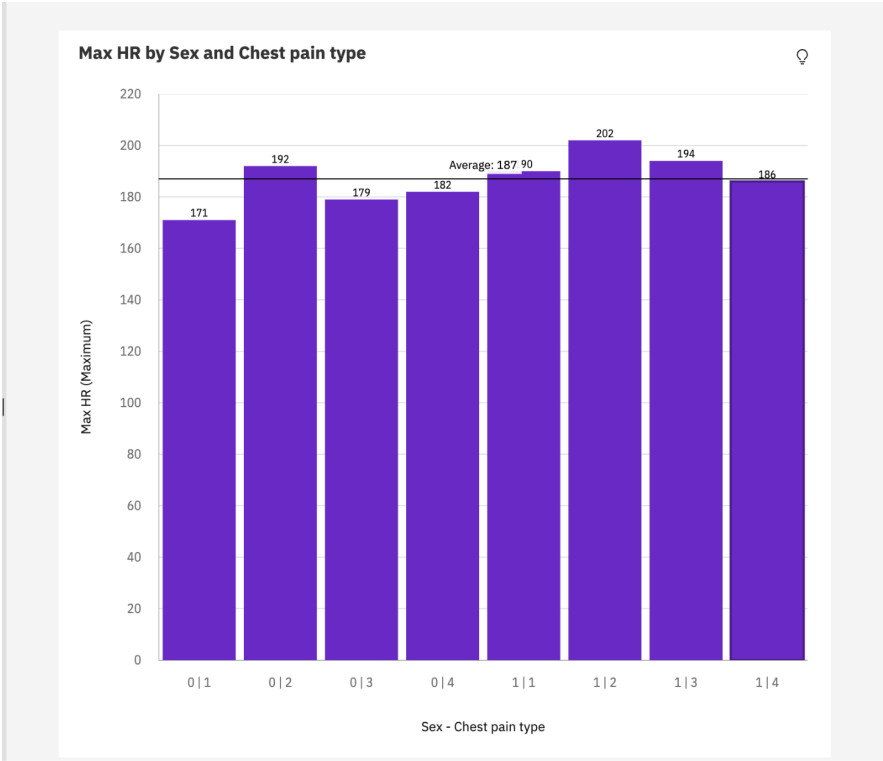**BP by Chest pain type and Sex colored by Sex**
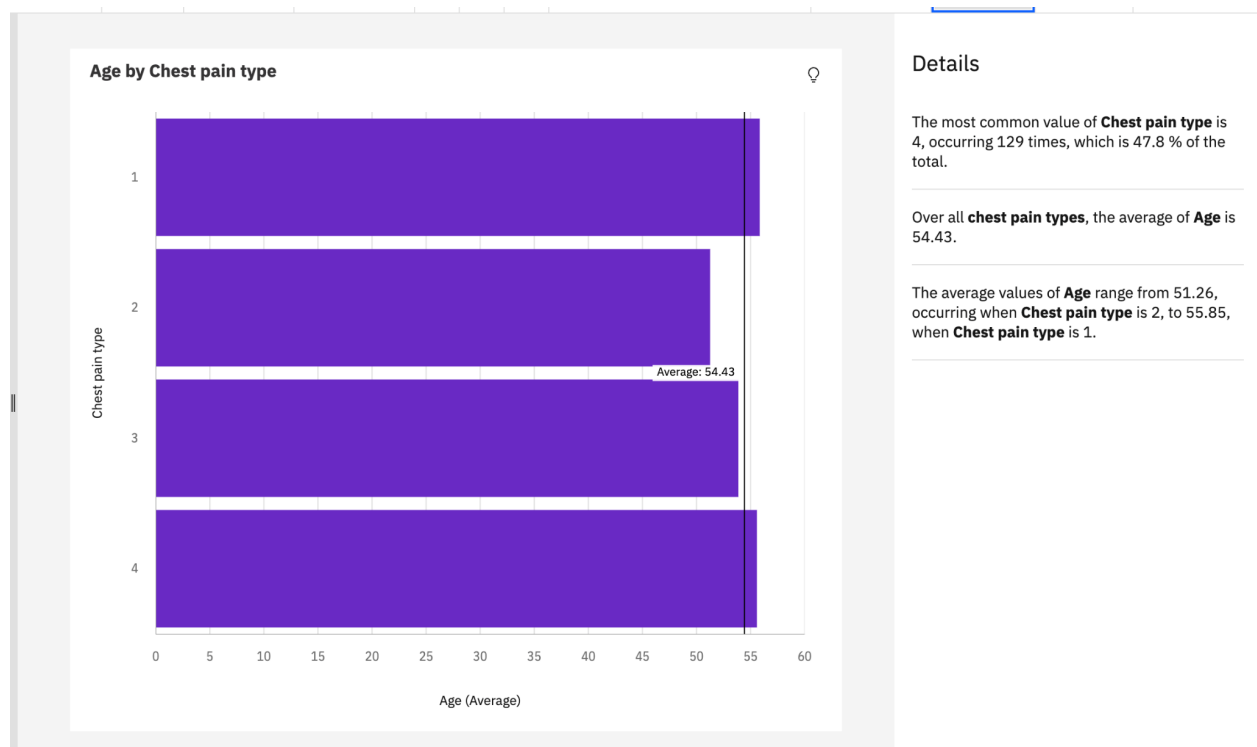
Sex (Average)

Details

The most common value of **Chest pain type - Sex** is 2|1, occurring 129 times, which is 47.8 % of the total.

The total number of results for **Sex** is 270.

Over all **chest pain type - sexes**, the average of **BP** is 0.6778.

The average values of **BP** range from 0, occurring when **Chest pain type - Sex** is 1|0, to 1, when **Chest pain type - Sex** is 1|0.

3. Max HR by Sex and Chest pain Type

Max HR by Sex and Chest pain type

Max HR (Maximum) vs Sex - Chest pain type:

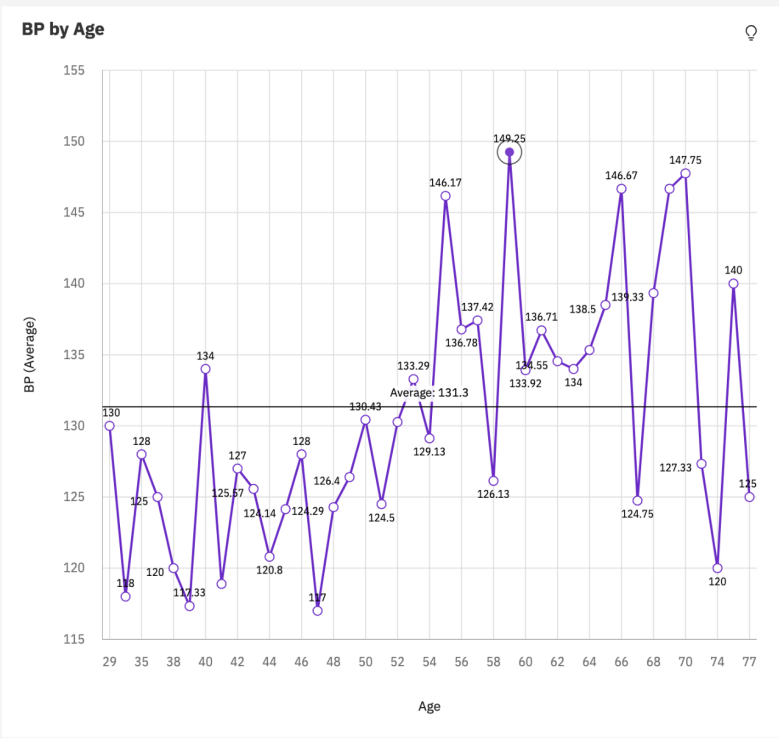| Sex - Chest pain type	Max HR
0 | 1	171
0 | 2	192
0 | 3	179
0 | 4	182
1 | 1	187 / 90 (Average: 187)
1 | 2	202
1 | 3	194
1 | 4	186

Details

The total number of results for **Max HR**, across all **sex - chest pain types**, is 270.

The most common value of **Sex - Chest pain type** is 0|2, occurring 183 times, which is 67.8 % of the total.

The largest value of **Max HR** is 3, occurring when **Sex - Chest pain type** is 0|1.

4. BP by Age

BP by Age

BP (Average) vs Age

Data points:
- 29: 130
- 35: 128
- 35: 118
- 38: 125
- 38: 120
- 40: 134
- 42: 117.33
- 42: 127
- 44: 125.57
- 44: 124.14
- 46: 120.8
- 46: 128
- 48: 124.29
- 48: 117
- 50: 126.4
- 52: 130.43
- 52: 124.5
- 54: 129.13
- 56: 133.29
- 56: 146.17
- 58: 136.78
- 58: 137.42
- 59: 149.25
- 60: 136.71
- 60: 126.13
- 62: 133.92
- 62: 130.55
- 64: 134
- 64: 138.5
- 66: 139.33
- 66: 146.67
- 68: 139.33
- 68: 124.75
- 70: 147.75
- 70: 127.33
- 74: 140
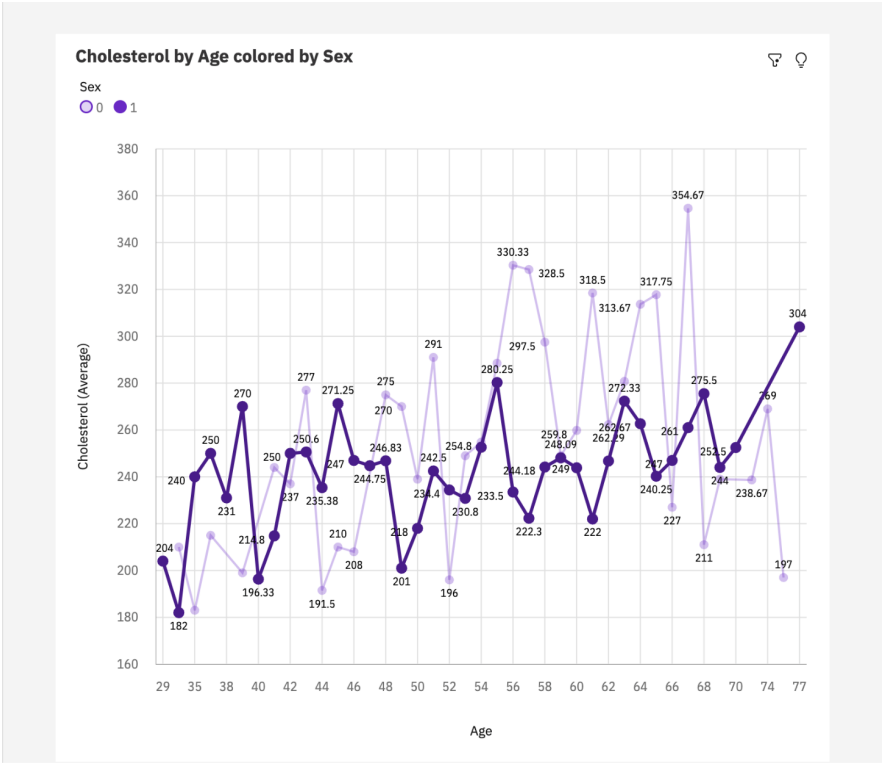- 74: 120
- 77: 125

Average: 131.3

Details

The most common values of **Age** are 54 (5.9 %) and 58 (5.6 %), together occurring 31 times, which is 11.5 % of the total.

Over all **ages**, the average of **BP** is 131.3.

The average values of **BP** range from 117, occurring when **Age** is 47, to 149.2, when **Age** is 59.

BP is unusually high when **Age** is 59.

5. Cholestrol by Age

Cholesterol by Age colored by Sex

Sex
○ 0 ● 1

Cholesterol (Average) vs Age

Data labels: 204, 182, 240, 250, 210, 231, 270, 196.33, 214.8, 250, 237, 250.6, 247, 277, 271.25, 191.5, 235.38, 210, 208, 244.75, 246.83, 275, 270, 201, 218, 242.5, 234.4, 291, 254.8, 233.5, 230.8, 196, 280.25, 244.18, 297.5, 330.33, 328.5, 259.8, 248.09, 249, 222.3, 262.67, 262.29, 222, 272.33, 313.67, 318.5, 247, 261, 240.25, 227, 354.67, 317.75, 252.5, 275.5, 244, 211, 238.67, 269, 251.5, 197, 304

Details

Over all **ages** and **sexes**, the average of **Cholesterol** is 249.7.

The average values of **Cholesterol** range from 182 to 354.7.

Cholesterol is unusually high when the combination of **Age** and **Sex** is 67 and 0.

The most common values of **Age** are 54 (5.9 %) and 58 (5.6 %), together occurring 31 times, which is 11.5 % of the total.

The most common value of **Sex** is 1, occurring 183 times, which is 67.8 % of the total.