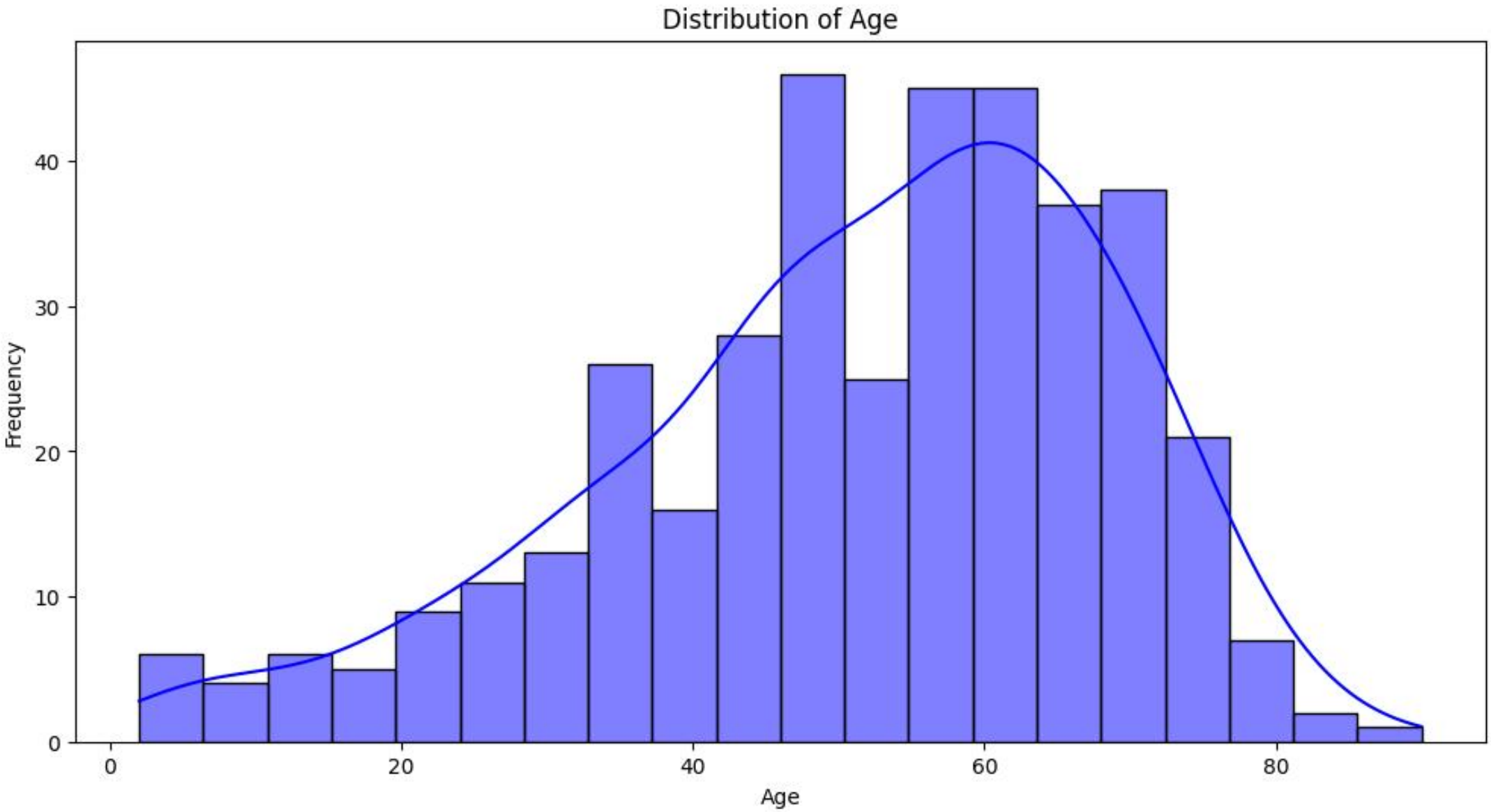
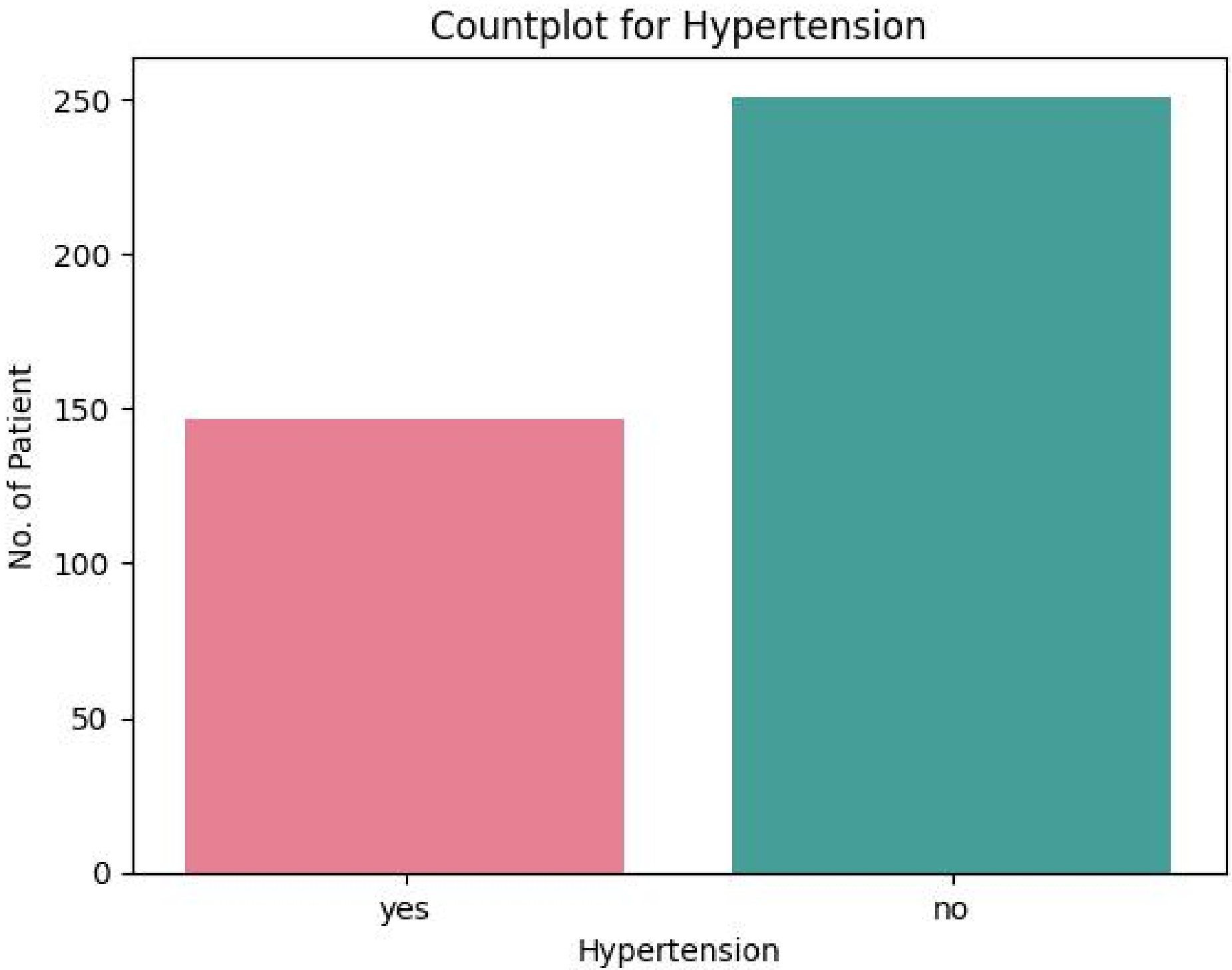
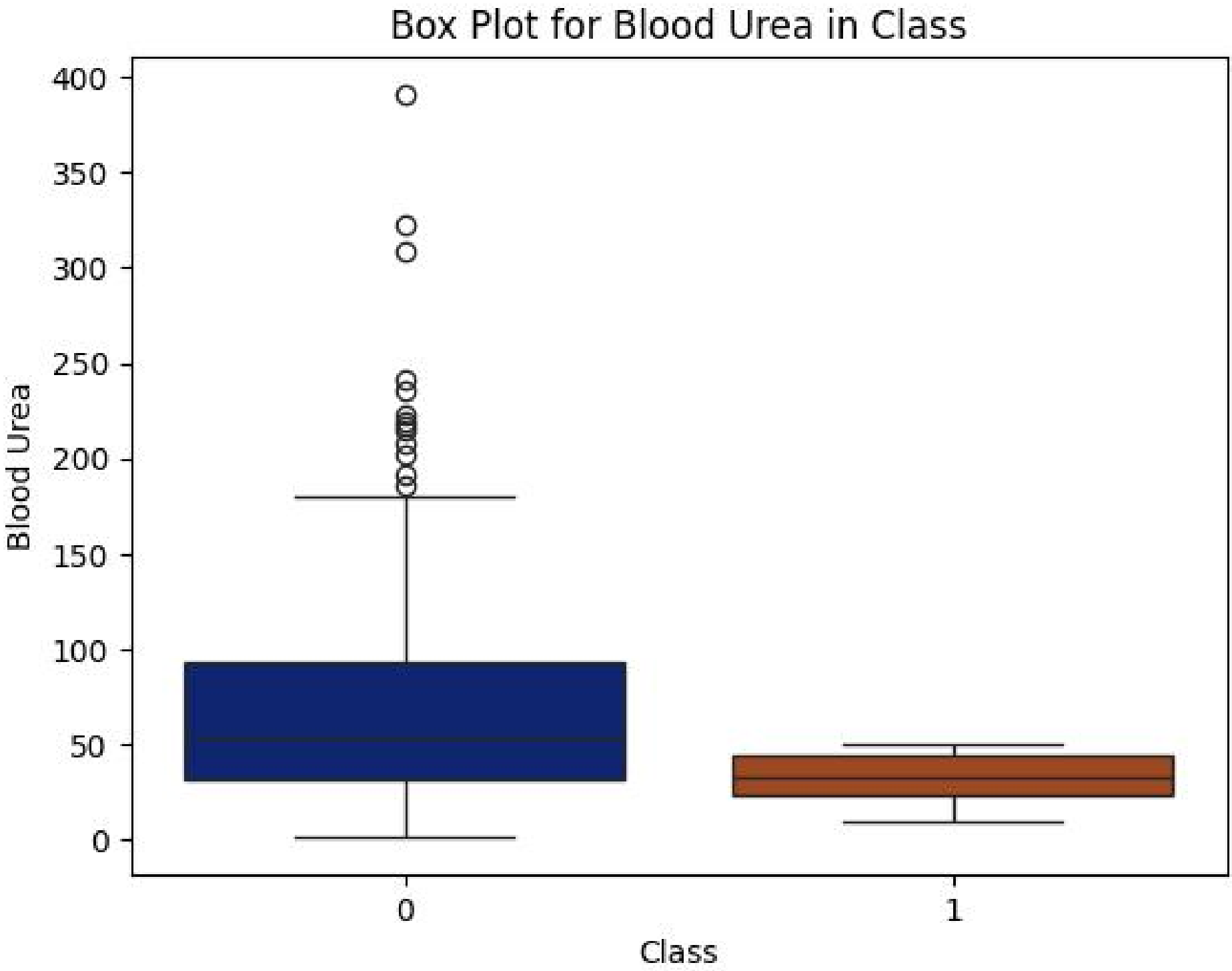
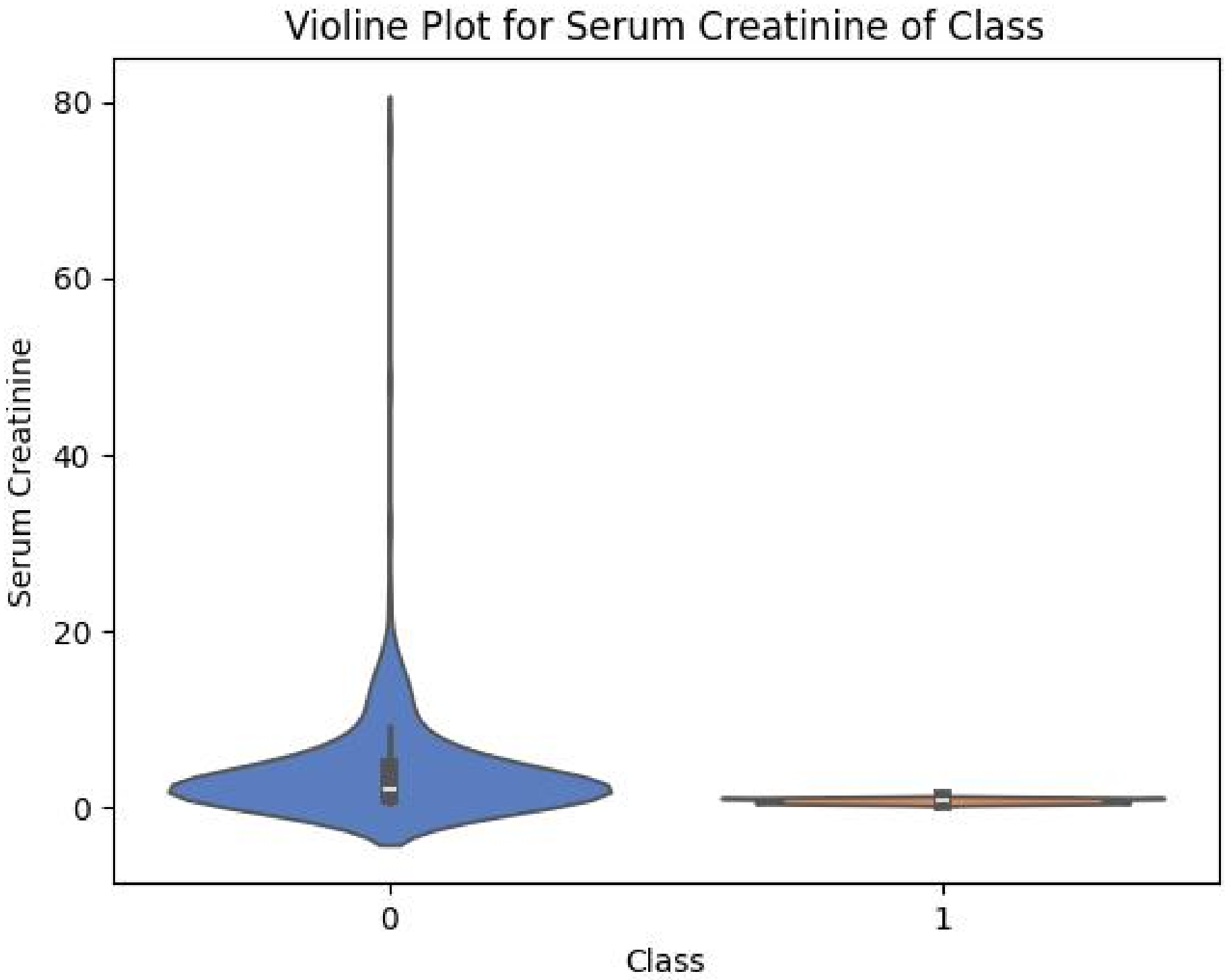
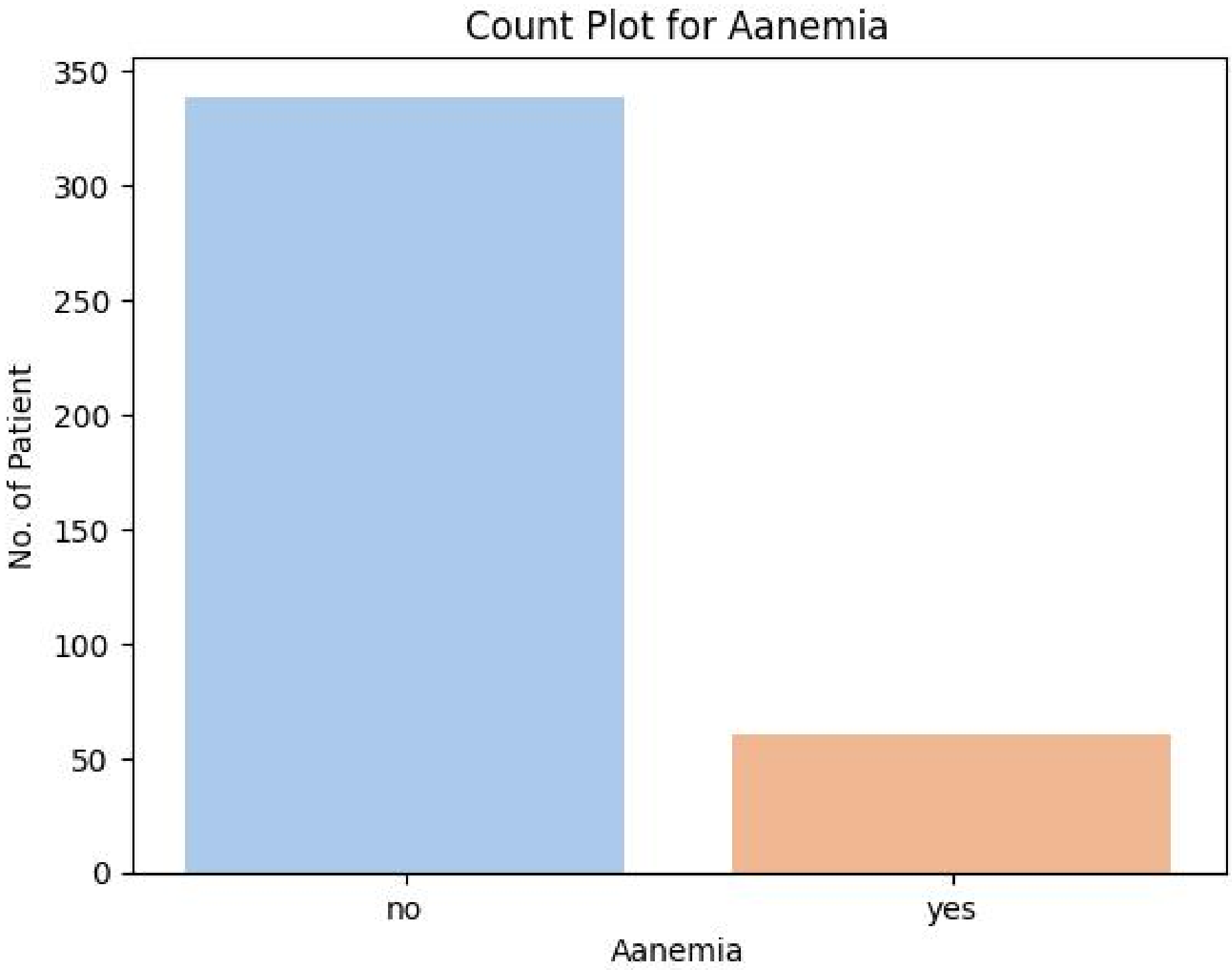
Python Project-EDA of Chronic Data (Kidney Disease)

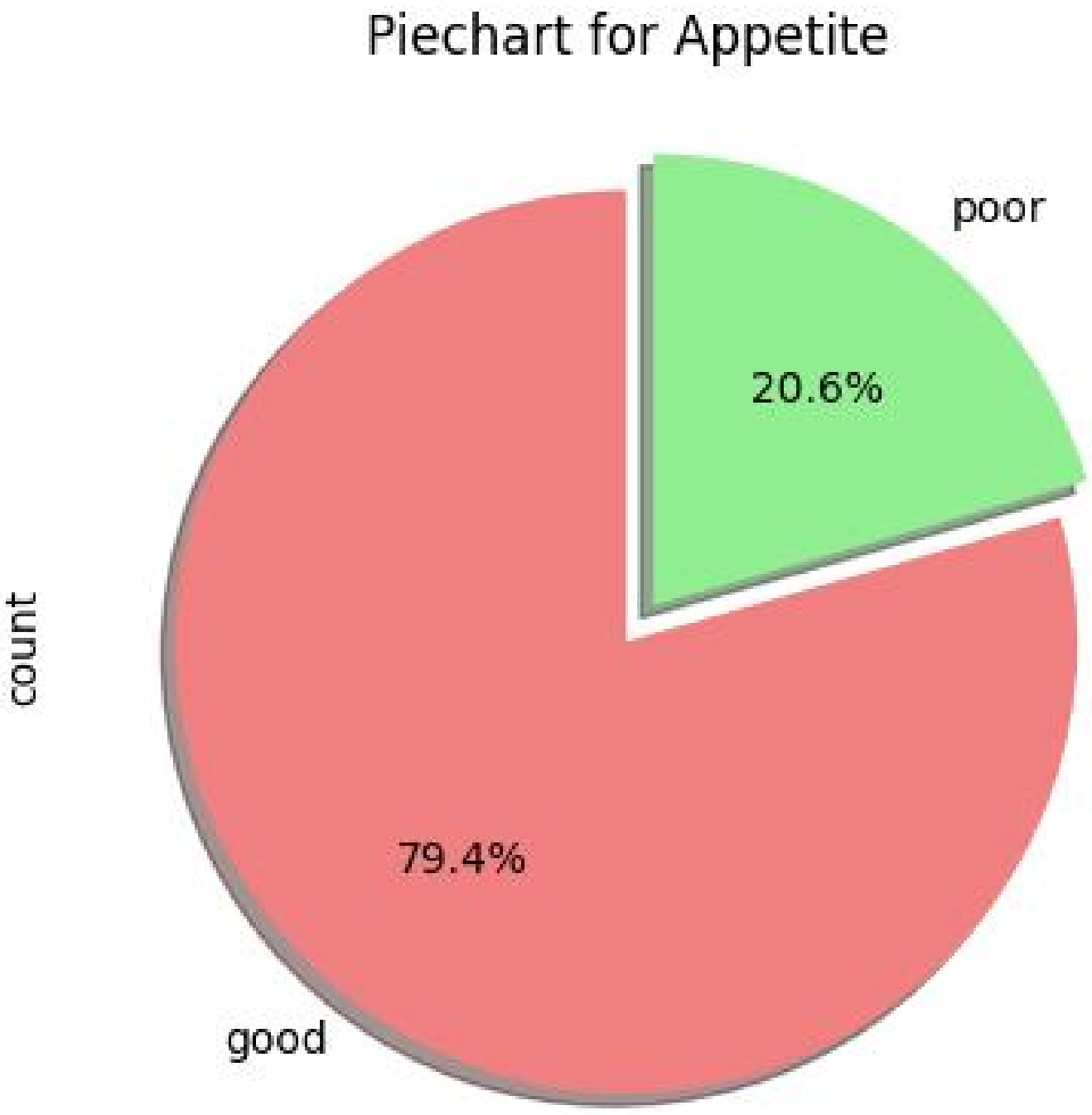


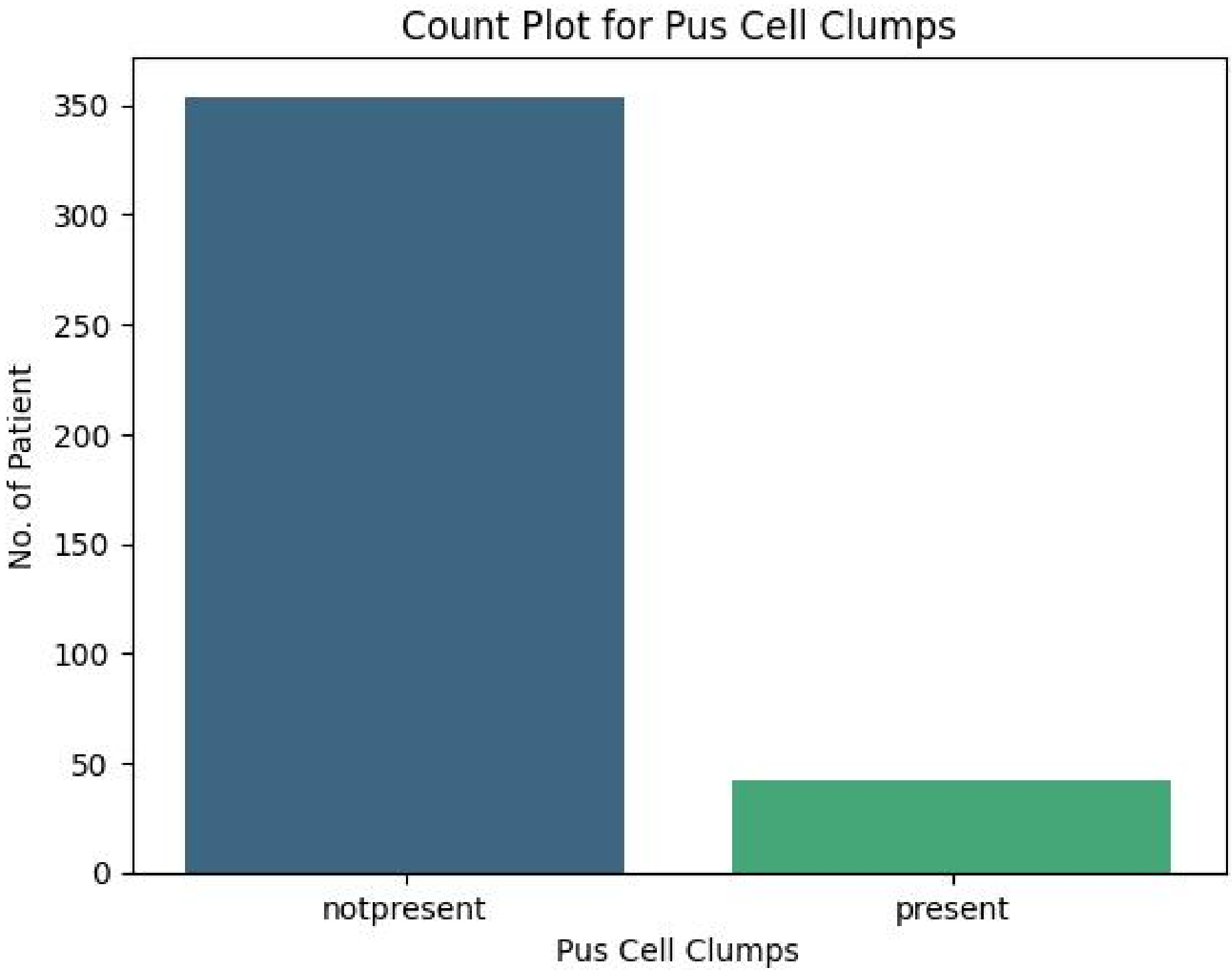

Countplot for Hypertension
250
200
150
100
50
0
No. of Patient
yes
no
Hypertension

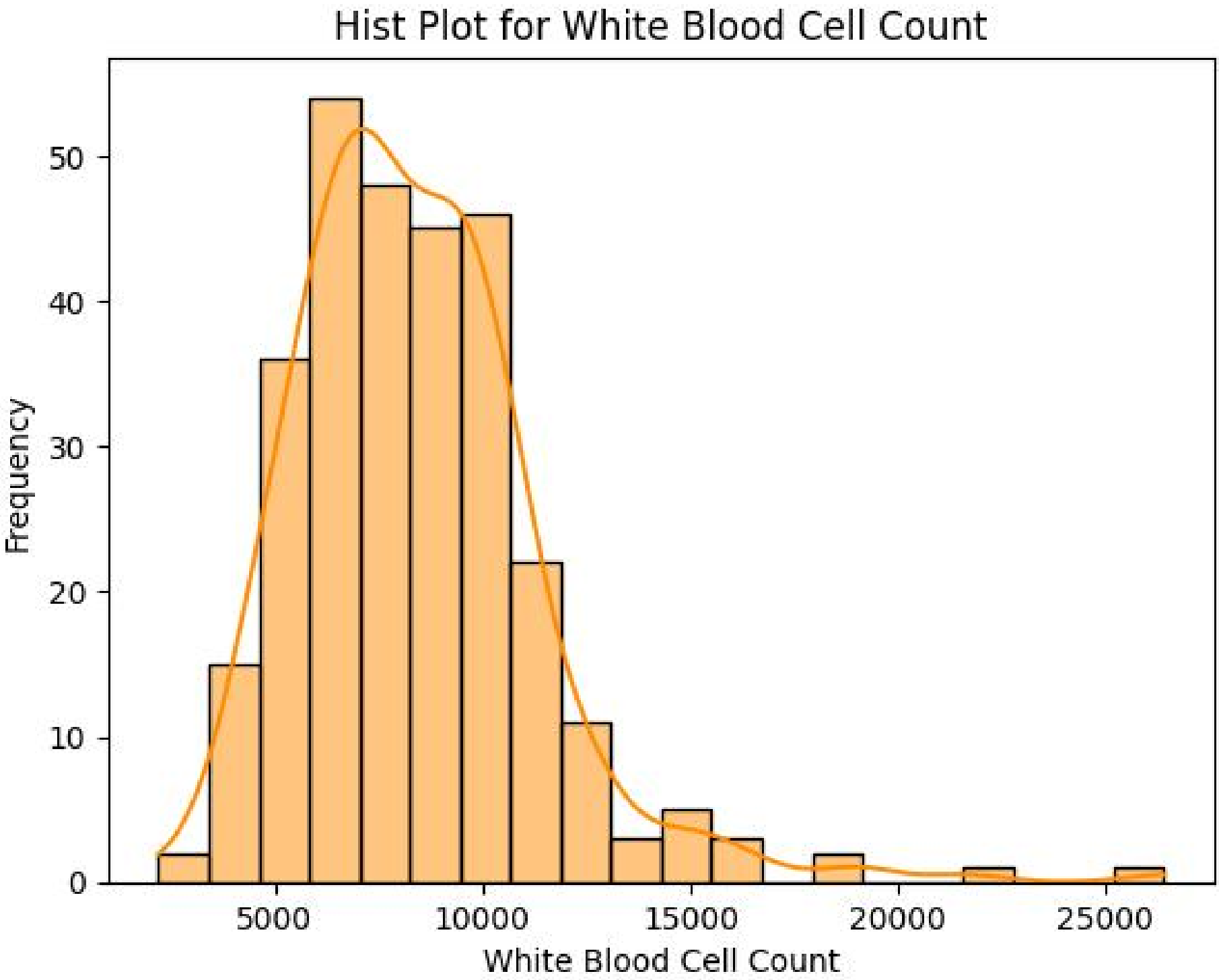

Box Plot for Blood Urea in Class
Blood Urea
400
350
300
250
200
150
100
50
0
0
1
Class

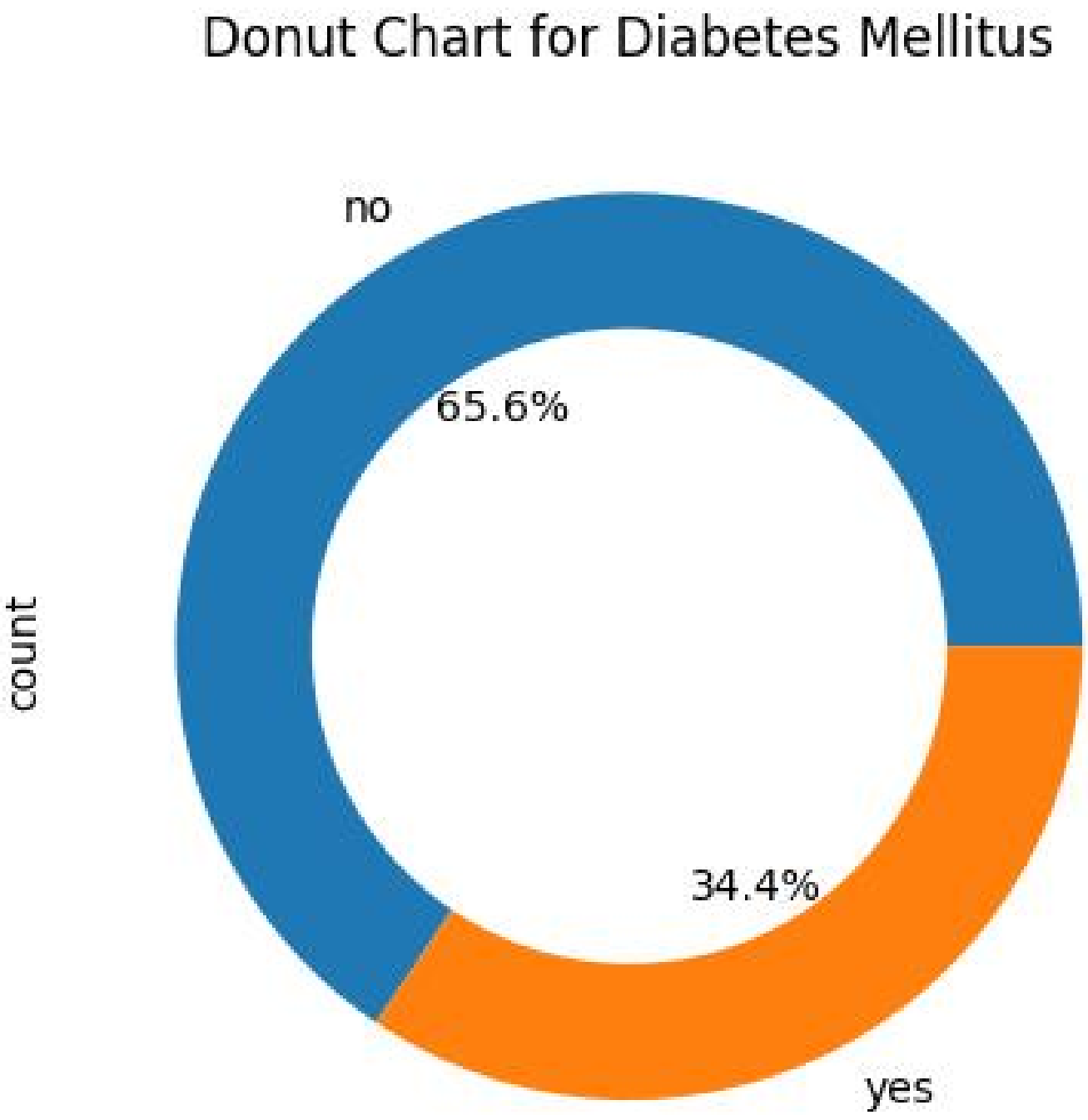

Violine Plot for Serum Creatinine of Class
Serum Creatinine
80
60
40
20
0
0
1
Class

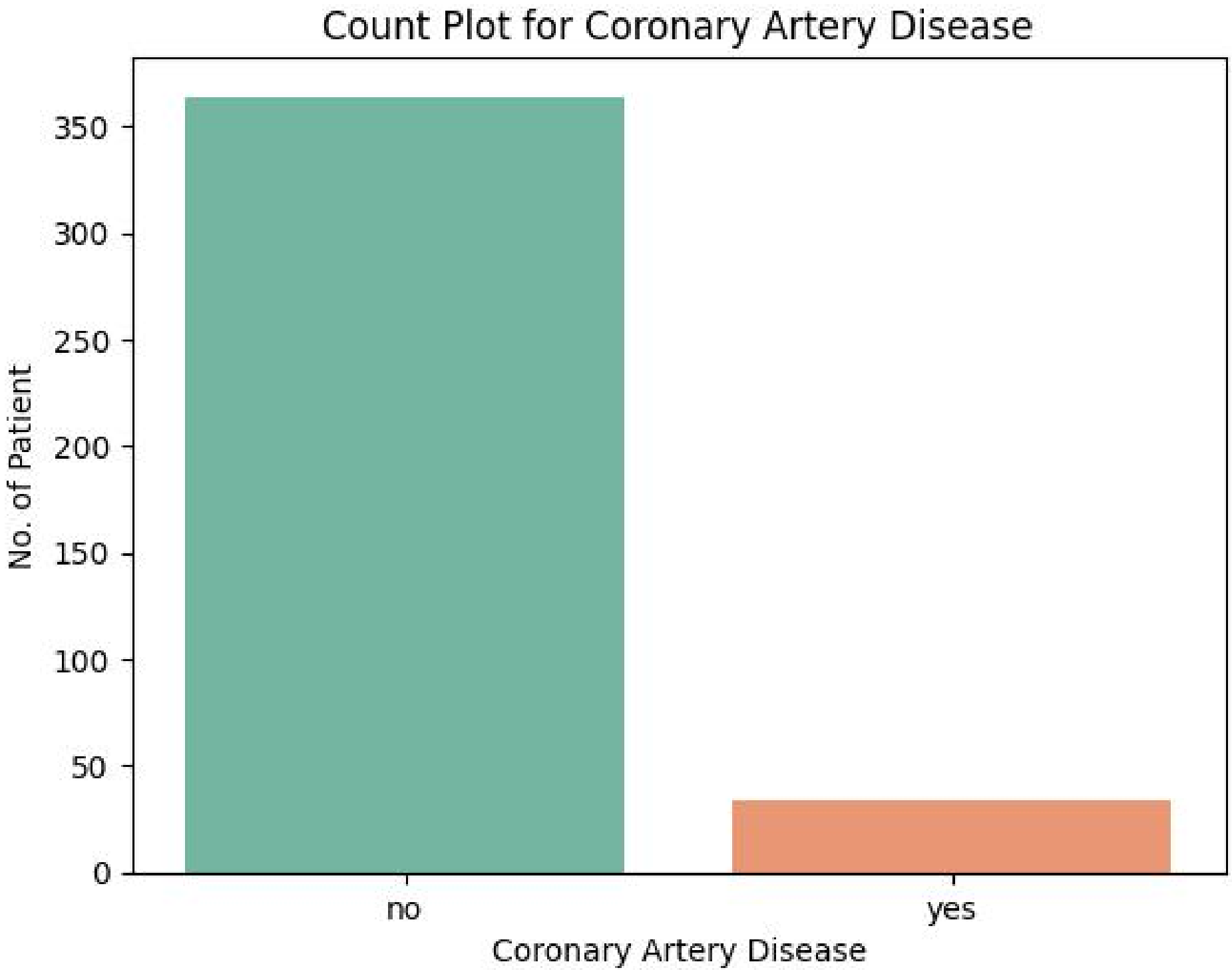

Count Plot for Aanemia
350
300
250
200
150
100
50
0
No. of Patient
no
yes
Aanemia

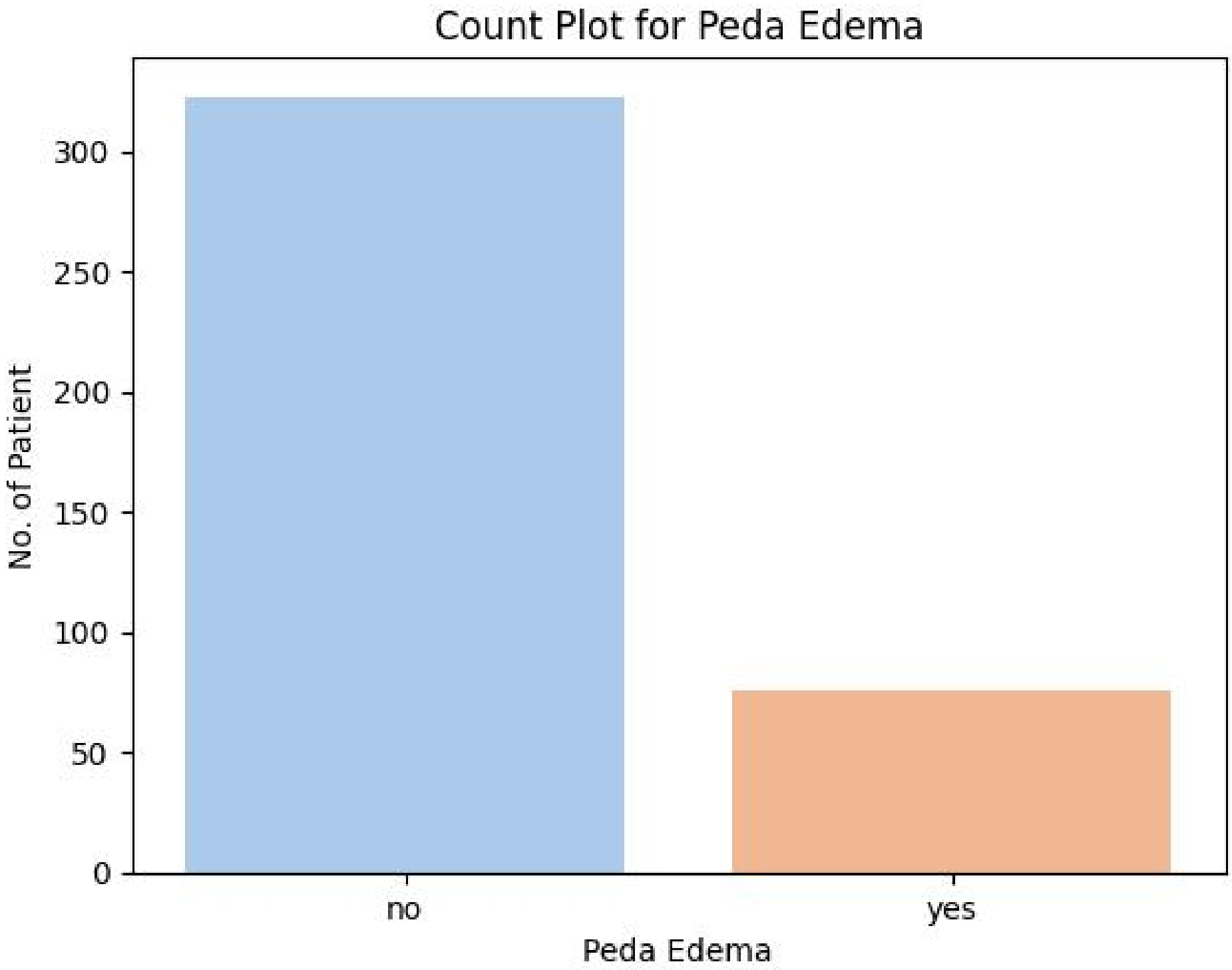

Piechart for Appetite
poor
20.6%
79.4%
good
count

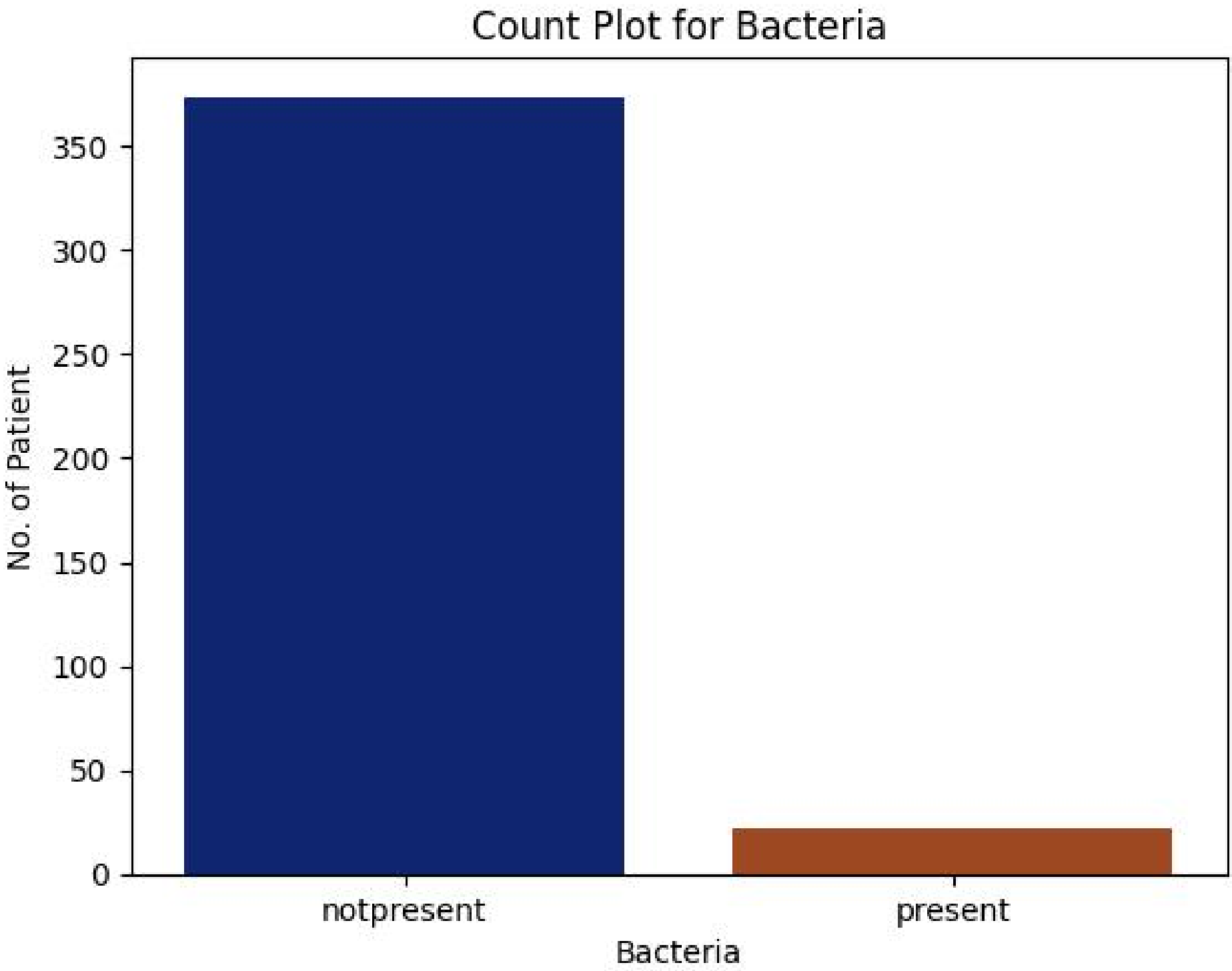

Count Plot for Pus Cell Clumps
No. of Patient
350
300
250
200
150
100
50
0
notpresent
present
Pus Cell Clumps

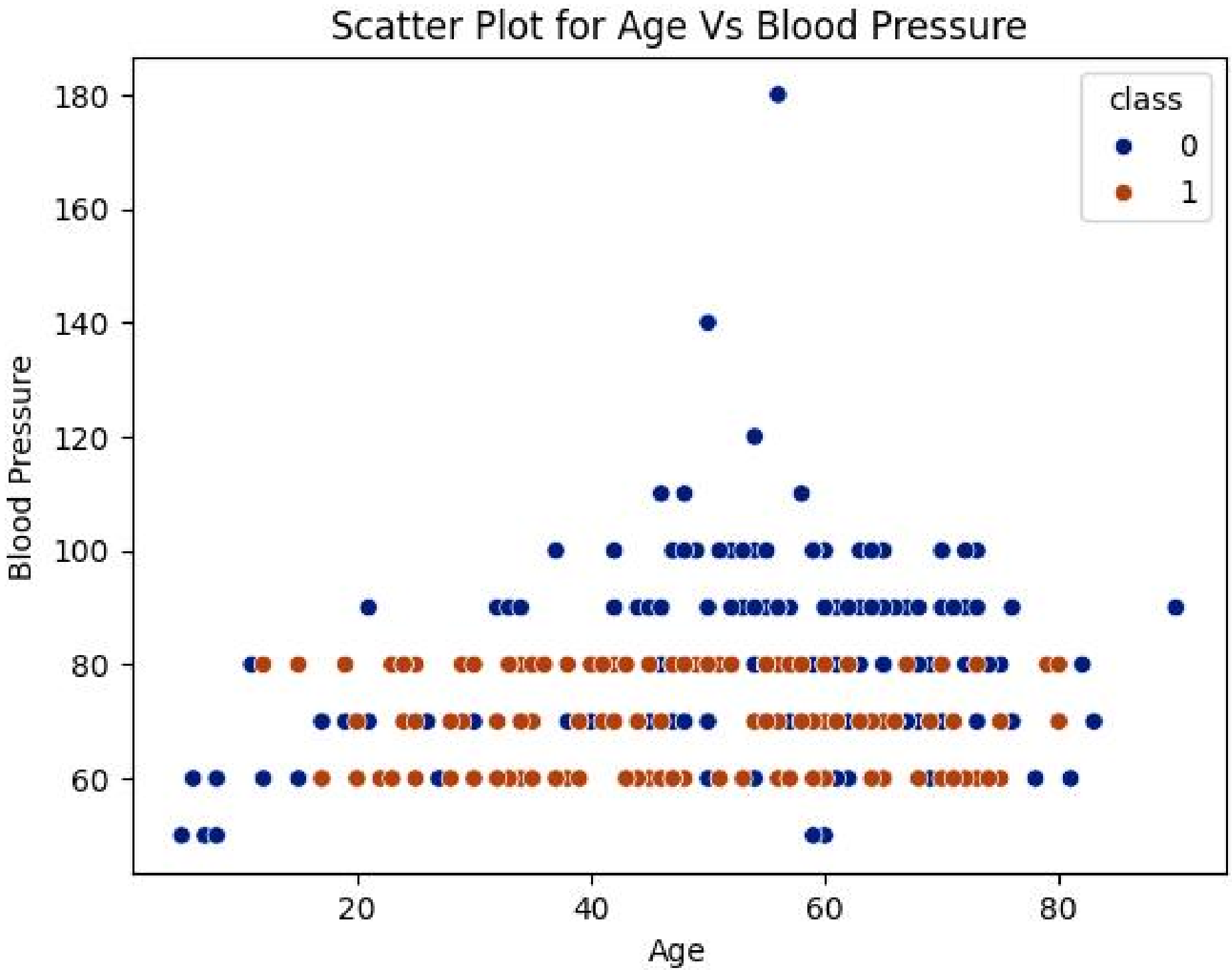

Hist Plot for White Blood Cell Count
Frequency
0
10
20
30
40
50
5000
10000
15000
20000
25000
White Blood Cell Count

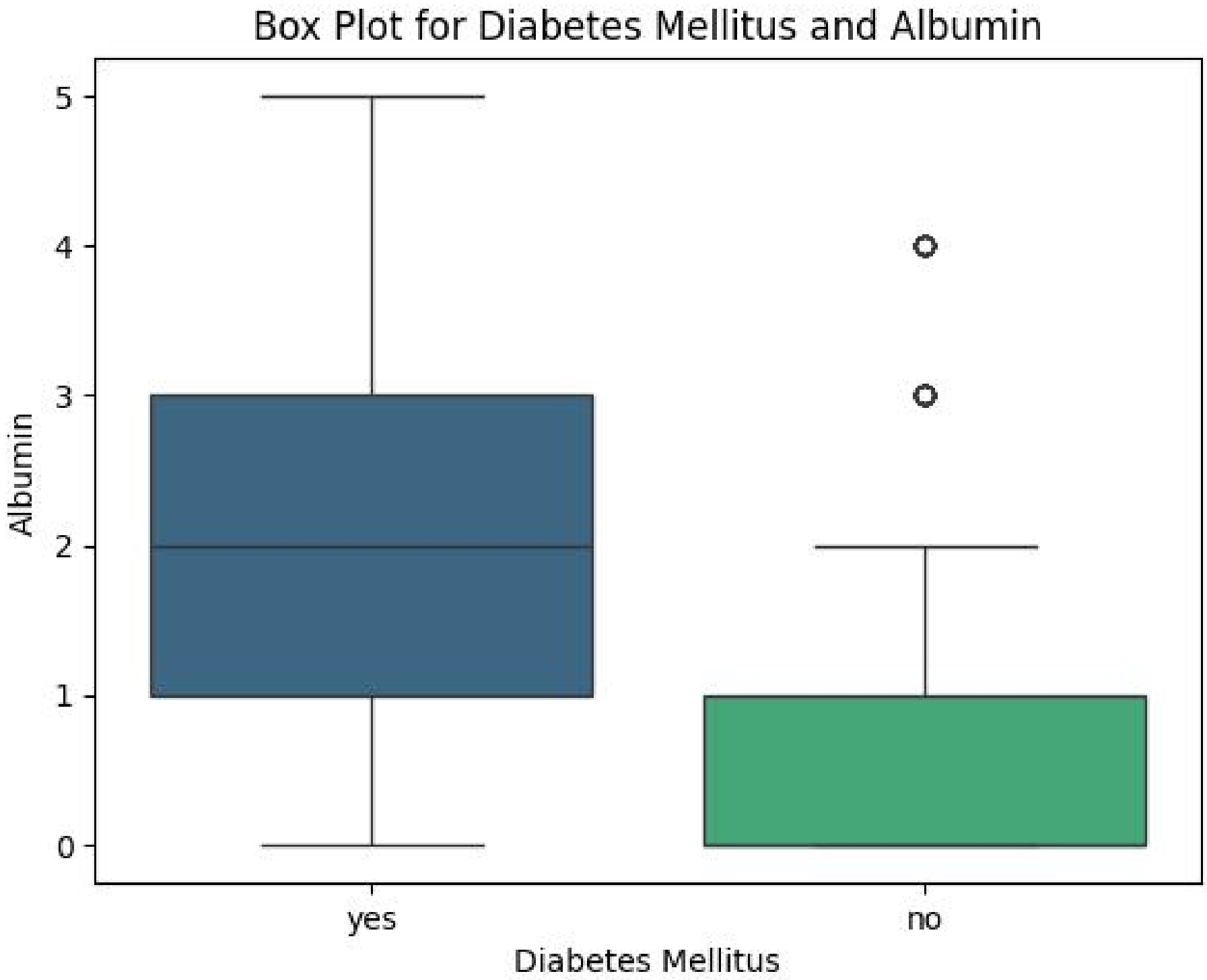

Donut Chart for Diabetes Mellitus
count
no
65.6%
34.4%
yes

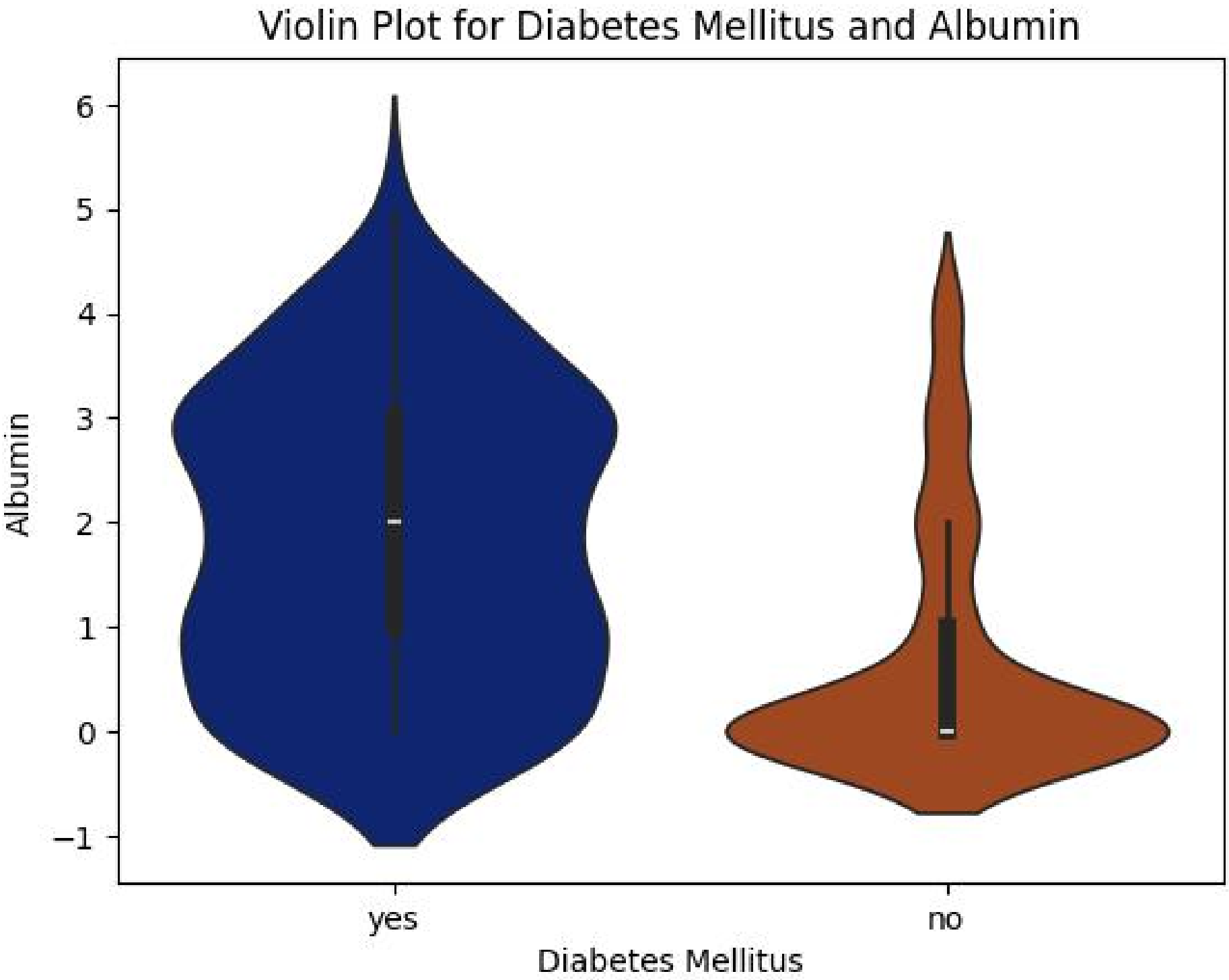

Count Plot for Coronary Artery Disease
No. of Patient
350
300
250
200
150
100
50
0
no
yes
Coronary Artery Disease

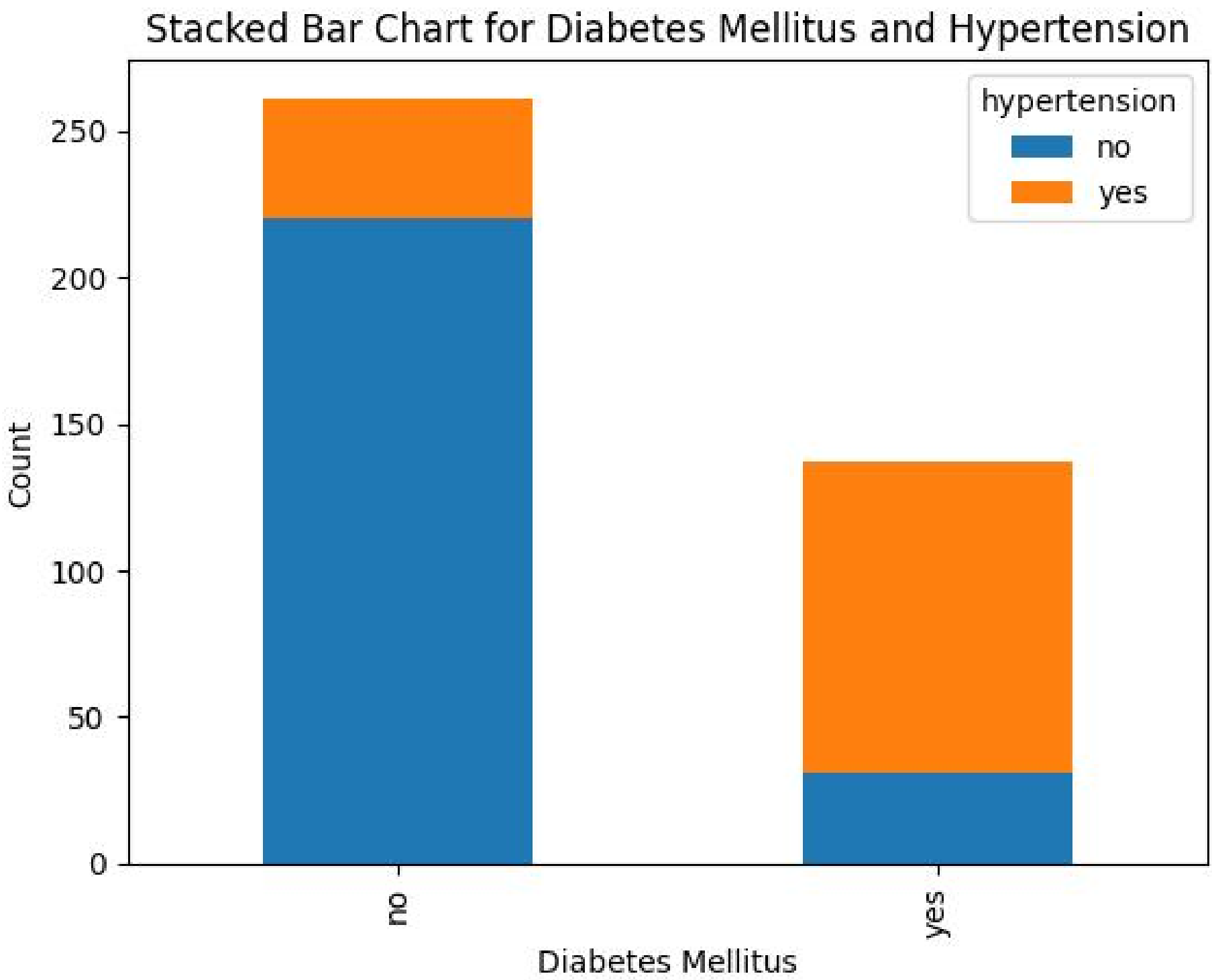

Count Plot for Peda Edema
No. of Patient
300
250
200
150
100
50
0
no
yes
Peda Edema

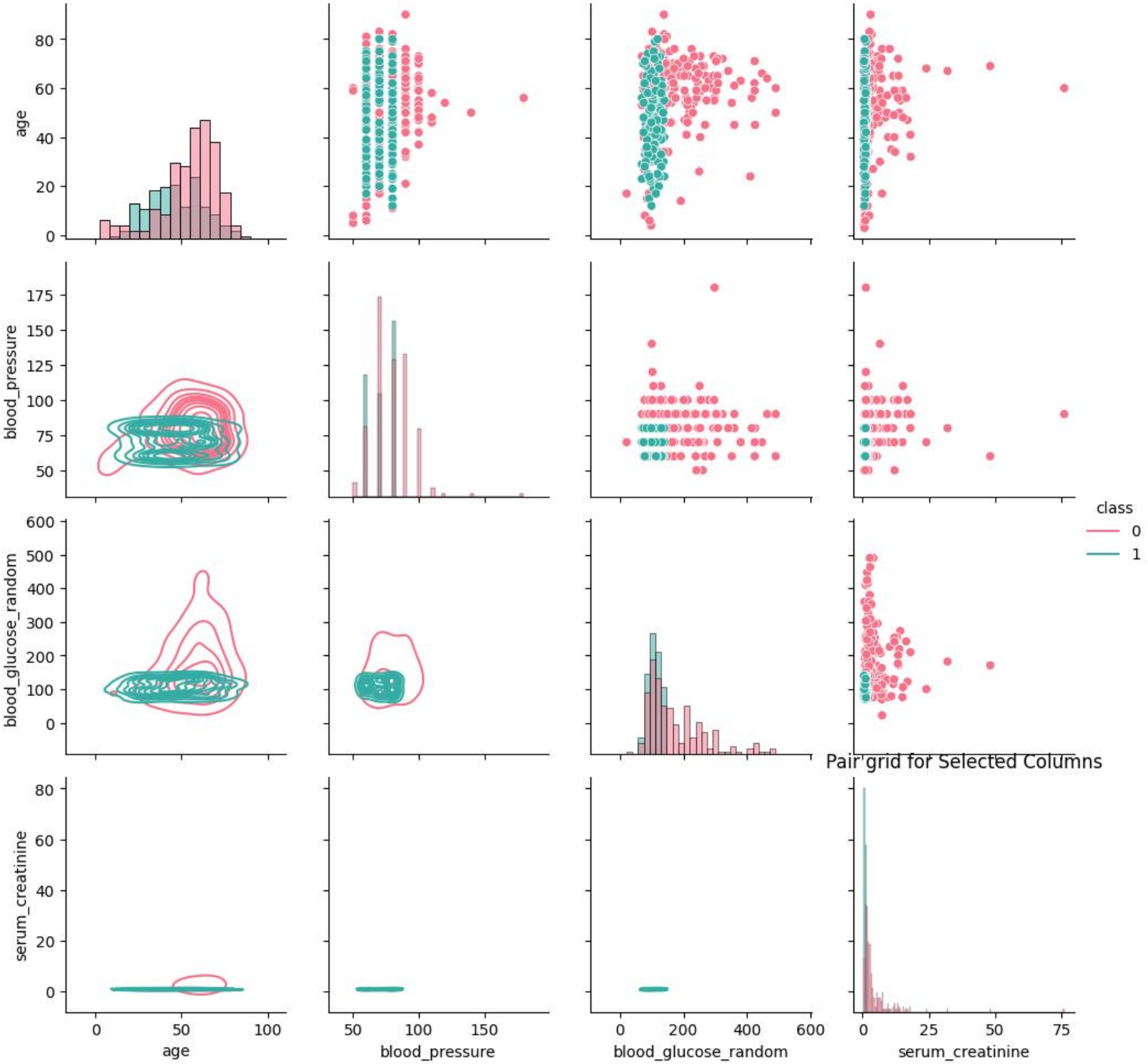

Count Plot for Bacteria
No. of Patient
350
300
250
200
150
100
50
0
notpresent
present
Bacteria

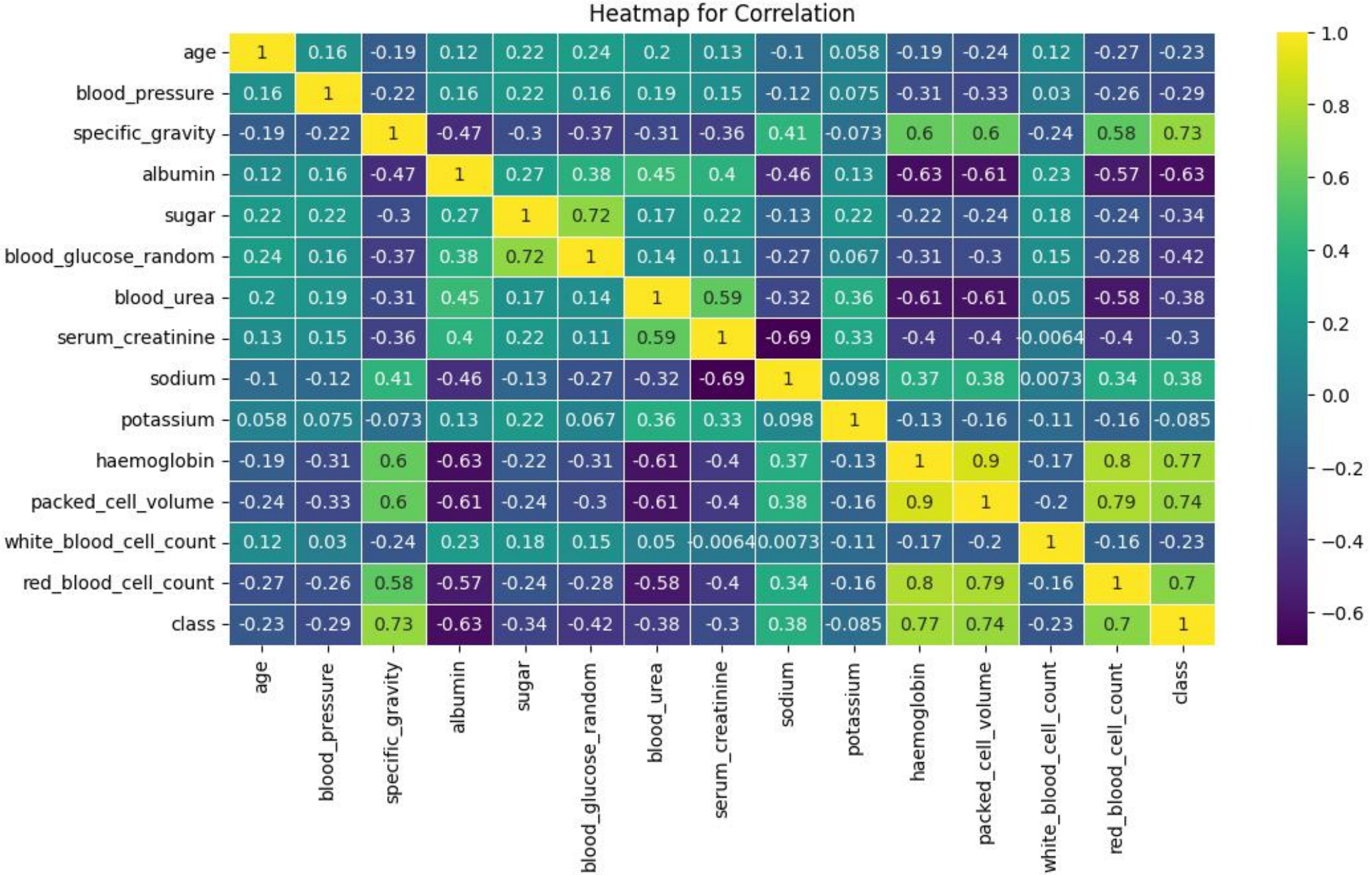

Scatter Plot for Age Vs Blood Pressure
class
0
1
Blood Pressure
180
160
140
120
100
80
60
20
40
60
80
Age

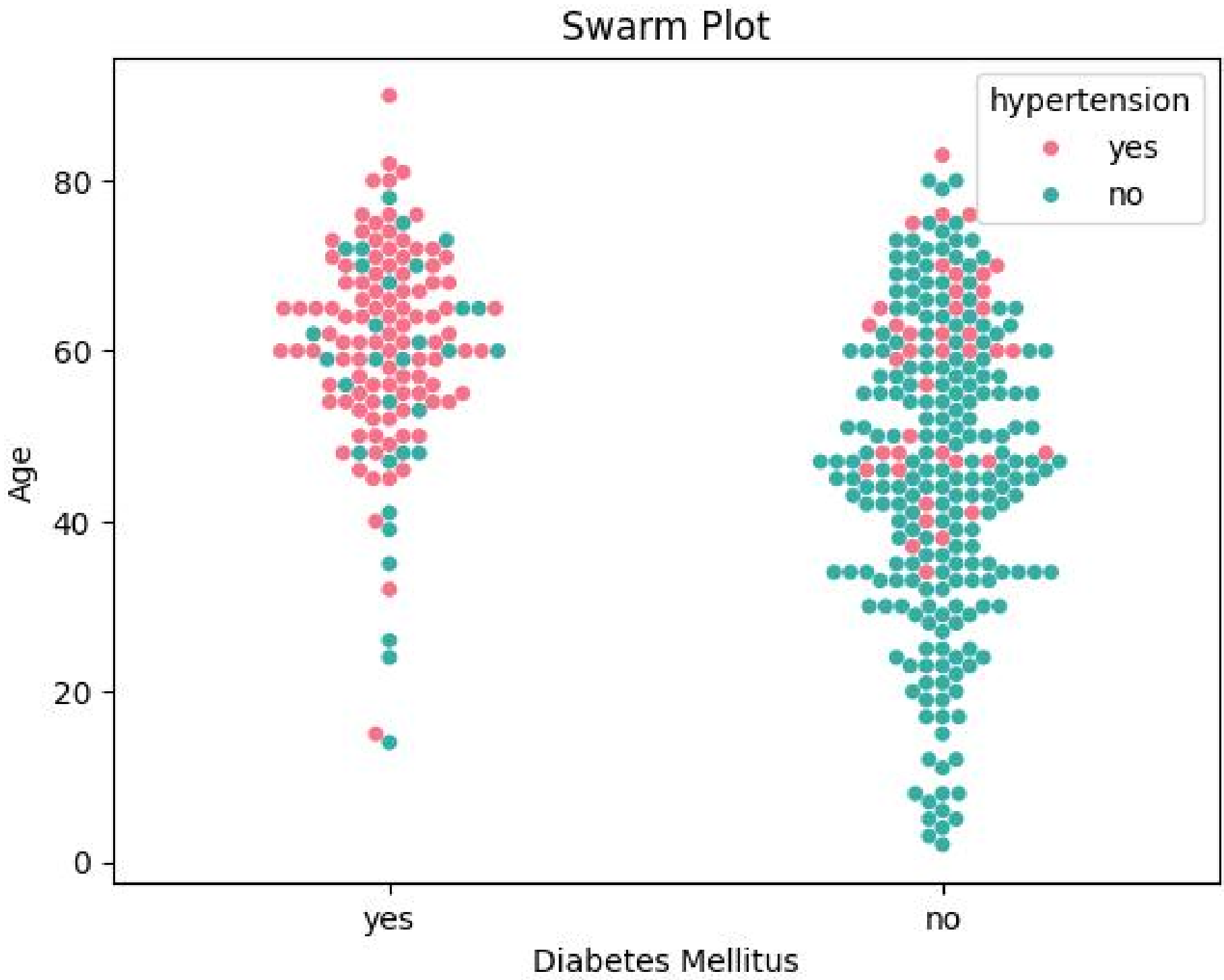

Box Plot for Diabetes Mellitus and Albumin
Albumin
5
4
3
2
1
0
yes
no
Diabetes Mellitus


Violin Plot for Diabetes Mellitus and Albumin
Albumin
6
5
4
3
2
1
0
−1
yes
no
Diabetes Mellitus

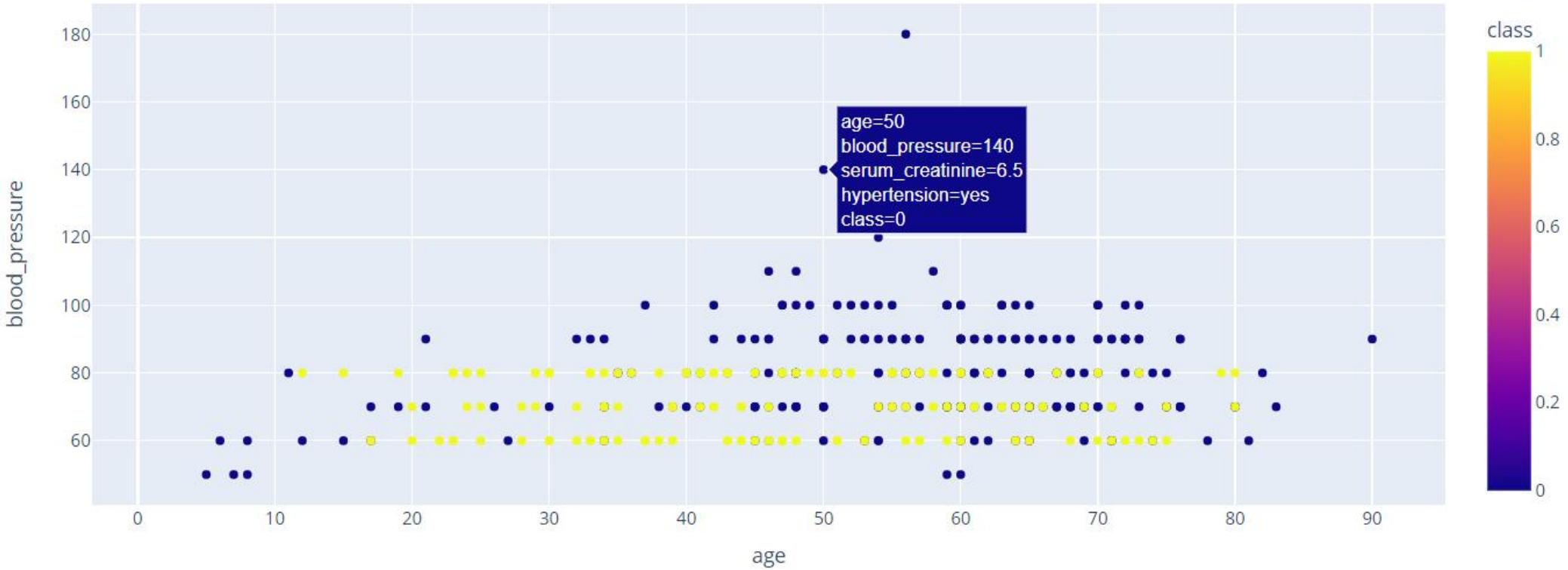
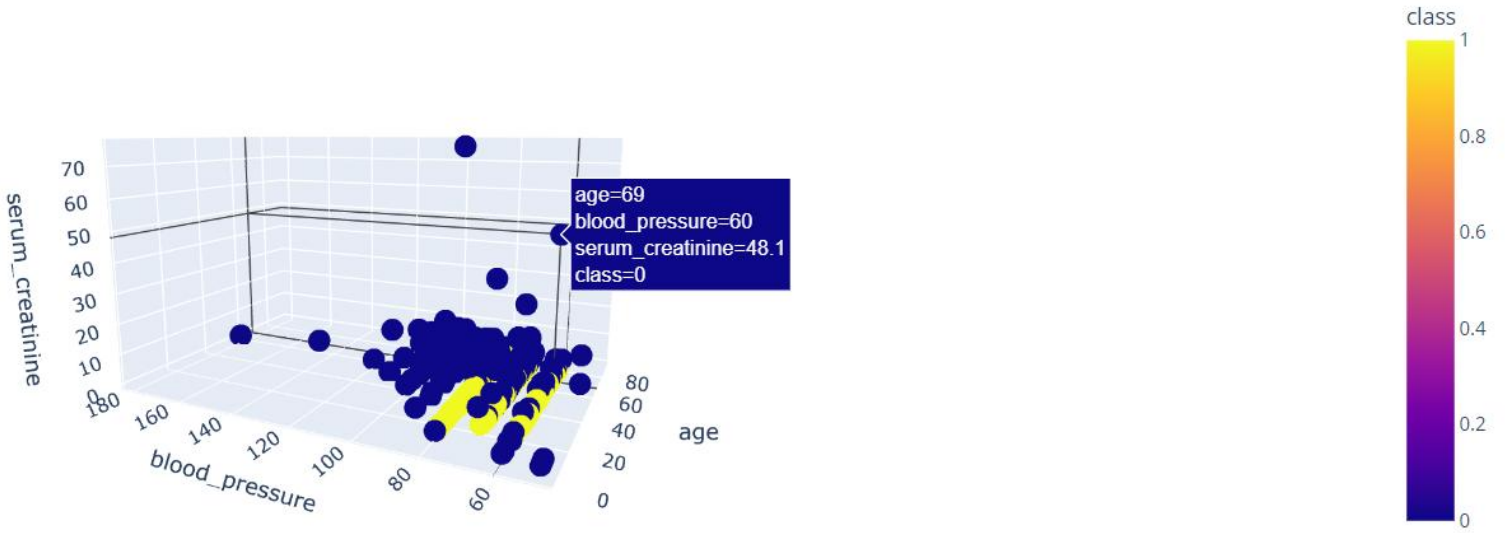

Stacked Bar Chart for Diabetes Mellitus and Hypertension
hypertension
no
yes
250
200
150
100
50
0
Count
no
yes
Diabetes Mellitus


Pair grid for Selected Columns
age
blood_pressure
blood_glucose_random
serum_creatinine
class
0
1


Heatmap for Correlation
age 1 0.16 -0.19 0.12 0.22 0.24 0.2 0.13 -0.1 0.058 -0.19 -0.24 0.12 -0.27 -0.23
blood_pressure 0.16 1 -0.22 0.16 0.22 0.16 0.19 0.15 -0.12 0.075 -0.31 -0.33 0.03 -0.26 -0.29
specific_gravity -0.19 -0.22 1 -0.47 -0.3 -0.37 -0.31 -0.36 0.41 -0.073 0.6 0.6 -0.24 0.58 0.73
albumin 0.12 0.16 -0.47 1 0.27 0.38 0.45 0.4 -0.46 0.13 -0.63 -0.61 0.23 -0.57 -0.63
sugar 0.22 0.22 -0.3 0.27 1 0.72 0.17 0.22 -0.13 0.22 -0.22 -0.24 0.18 -0.24 -0.34
blood_glucose_random 0.24 0.16 -0.37 0.38 0.72 1 0.14 0.11 -0.27 0.067 -0.31 -0.3 0.15 -0.28 -0.42
blood_urea 0.2 0.19 -0.31 0.45 0.17 0.14 1 0.59 -0.32 0.36 -0.61 -0.61 0.05 -0.58 -0.38
serum_creatinine 0.13 0.15 -0.36 0.4 0.22 0.11 0.59 1 -0.69 0.33 -0.4 -0.4 -0.0064 -0.4 -0.3
sodium -0.1 -0.12 0.41 -0.46 -0.13 -0.27 -0.32 -0.69 1 0.098 0.37 0.38 0.0073 0.34 0.38
potassium 0.058 0.075 -0.073 0.13 0.22 0.067 0.36 0.33 0.098 1 -0.13 -0.16 -0.11 -0.16 -0.085
haemoglobin -0.19 -0.31 0.6 -0.63 -0.22 -0.31 -0.61 -0.4 0.37 -0.13 1 0.9 -0.17 0.8 0.77
packed_cell_volume -0.24 -0.33 0.6 -0.61 -0.24 -0.3 -0.61 -0.4 0.38 -0.16 0.9 1 -0.2 0.79 0.74
white_blood_cell_count 0.12 0.03 -0.24 0.23 0.18 0.15 0.05 -0.0064 0.0073 -0.11 -0.17 -0.2 1 -0.16 -0.23
red_blood_cell_count -0.27 -0.26 0.58 -0.57 -0.24 -0.28 -0.58 -0.4 0.34 -0.16 0.8 0.79 -0.16 1 0.7
class -0.23 -0.29 0.73 -0.63 -0.34 -0.42 -0.38 -0.3 0.38 -0.085 0.77 0.74 -0.23 0.7 1
age
blood_pressure
specific_gravity
albumin
sugar
blood_glucose_random
blood_urea
serum_creatinine
sodium
potassium
haemoglobin
packed_cell_volume
white_blood_cell_count
red_blood_cell_count
class
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6


Swarm Plot
hypertension
yes
no
Age
0
20
40
60
80
yes
no
Diabetes Mellitus

Interactive Scatterplot with Hover Information



Interactive Scatterplot with Hover Information