when n\_features = 2, train\_set\_accuracy = 0.928571, test\_set\_accuracy = 0.857143.

when n\_features = 3, train\_set\_accuracy = 0.952381, test\_set\_accuracy = 0.892857.

when n\_features = 4, train\_set\_accuracy = 0.976190, test\_set\_accuracy = 0.928571.

when n\_features = 5, train\_set\_accuracy = 0.976190, test\_set\_accuracy = 0.857143.

when n\_features = 6, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.821429.

when n\_features = 7, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.857143.

when n\_features = 8, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.857143.

when n\_features = 9, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.857143.

when n\_features = 10, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.857143.

when n\_features = 11, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.857143.

when n\_features = 12, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.857143.

when n\_features = 13, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.857143.

when n\_features = 14, train\_set\_accuracy = 1.000000, test\_set\_accuracy = 0.857143.

图表

描述已自动生成

图表, 散点图

描述已自动生成

n\_features: 4

n\_component: 3

AUC: 0.953125

灵敏度: 0.9166666666666666

特异度: 0.9375

准确率: 0.9285714285714286

精确率: 0.9166666666666666

F1: 0.9166666666666666

classification\_report =

precision recall f1-score support

control 0.94 0.94 0.94 16

lung-s 0.92 0.92 0.92 12

accuracy 0.93 28

macro avg 0.93 0.93 0.93 28

weighted avg 0.93 0.93 0.93 28

图表, 直方图

描述已自动生成

24 : 4.401708000000001

84 : 12.290963571428572

88 : 12.65858595744681

106 : 15.138344999999992