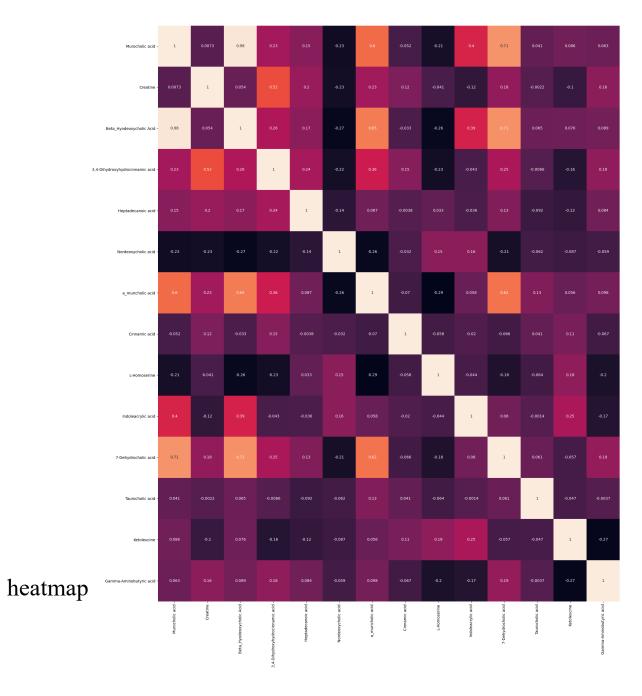


所有样本中患病与不患病的情况



特征提取1

热力图中可以看到特征"Muorcholic acid"与特征"Beta_Hyodeoxycholic Acid"相关性较高,使用一个代表即可

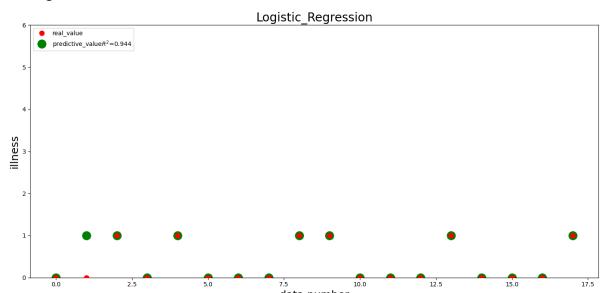
显著特征:

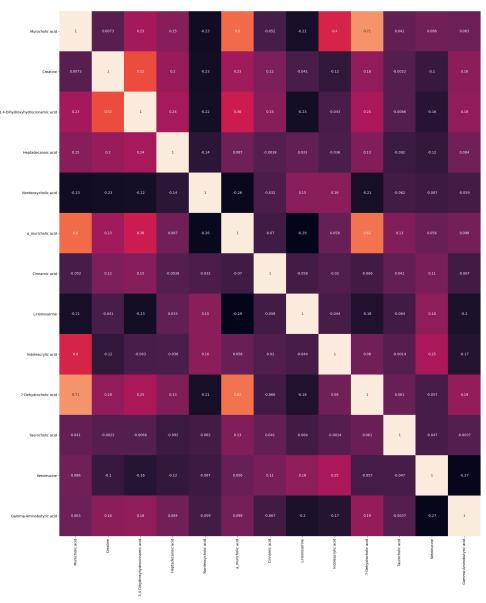
'Murocholic acid', 'Creatine', '3,4-Dihydroxyhydrocinnamic acid', 'Heptadecanoic acid', 'Nordeoxycholic acid', 'a_muricholic acid', 'Cinnamic acid', 'L-Homoserine', 'Indoleacrylic acid', '7-Dehydrocholic acid', 'Taurocholic acid', 'Ketoleucine', 'Gamma-Aminobutyric acid'

准确率:

SVM: 84.6%

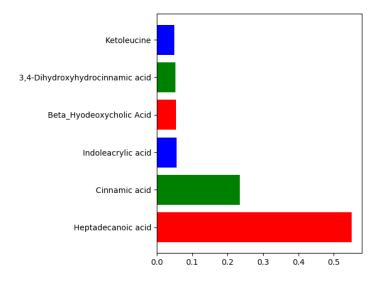
Logistic回归: 97.05%





特征提取2

显著特征:

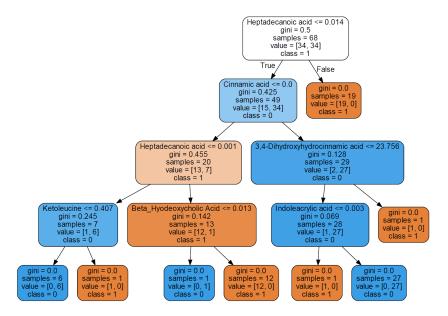


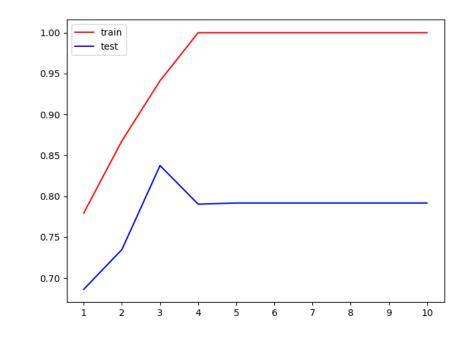
准确率:

决策树: 88.89%

SVM: 88.89%

Logistic 回归: 88.24%





特征提取3

显著特征(20分以上):
'Heptadecanoic acid',
'Cinnamic acid',
'Ketoleucine',
'Indoleacrylic acid',
'L-Homoserine',
'Murocholic acid'

准确率:

XGBoost: 92.31%

SVM: 94.44%

Logistic 回归: 86.76%

