

GaussianNB(priors=None)

 Naive Byes accuracy score = 89.2036124795%
 Naive Byes precision score = 89.402455468%
 Naive Byes recall score = 89.3483883509%
 Naive Byes f1 score = 89.2029556426%

SVC(C=25, cache_size=200, class_weight=None, coef0=0.0,
 decision_function_shape=None, degree=3, gamma='auto', kernel='linear',
 max_iter=-1, probability=False, random_state=None, shrinking=True,
 tol=0.001, verbose=False)

-----VALIDATION-----
 SVM accuracy score = 97.5349219392%
 SVM precision score = 97.5919650192%
 SVM recall score = 97.5811637433%
 SVM f1 score = 97.5349069598%

-----TESTING-----
 SVM accuracy score = 96.3054187192%
 SVM precision score = 96.3826366559%
 SVM recall score = 96.4898595944%
 SVM f1 score = 96.3045194628%

DecisionTreeClassifier(class_weight='balanced', criterion='gini',
 max_depth=20, max_features='log2', max_leaf_nodes=None,
 min_impurity_split=1e-07, min_samples_leaf=1,
 min_samples_split=5, min_weight_fraction_leaf=0.0,
 presort=False, random_state=251254, splitter='best')

 Decision tree accuracy score = 100.0%
 Decision tree precision score = 100.0%
 Decision tree recall score = 100.0%
 Decision tree f1 score = 100.0%

MLPClassifier(activation='logistic', alpha=0.0001, batch_size='auto',
 beta_1=0.9, beta_2=0.999, early_stopping=False, epsilon=1e-08,
 hidden_layer_sizes=(20, 20, 20), learning_rate='constant',
 learning_rate_init=0.001, max_iter=200, momentum=0.9,
 nesterovs_momentum=True, power_t=0.5, random_state=False,
 shuffle=True, solver='adam', tol=0.0001, validation_fraction=0.1,
 verbose=False, warm_start=False)

-----VALIDATION-----
 Neural network accuracy score = 100.0%
 Neural network precision score = 100.0%
 Neural network recall score = 100.0%
 Neural network f1 score = 100.0%

-----TESTING-----
 Neural network accuracy score = 100.0%
 Neural network precision score = 100.0%
 Neural network recall score = 100.0%
 Neural network f1 score = 100.0%

-----VALIDATION-----
 Voting system accuracy score = 100.0%
 Voting system precision score = 100.0%
 Voting system recall score = 100.0%
 Voting system f1 score = 100.0%

-----TESTING-----
 Voting system accuracy score = 100.0%
 Voting system precision score = 100.0%
 Voting system recall score = 100.0%
 Voting system f1 score = 100.0%

Process finished with exit code 0