1. Hyperparameters

Decision Tree:

Random Forest:

* Random\_state = 0
* Max\_depth = 5
* Max\_features = 5
* Criterion=entropy

Validation dataset: 0.7205882352941176

Test dataset: 0.7014925373134329

* Random\_state = 0
* Max\_depth = None
* Max\_features = 3
* Criterion=entropy

Validation dataset: 0.7352941176470589

Test dataset: 0.6417910447761194

* Random\_state = 0
* Max\_depth = 15
* Max\_features = 5
* Criterion=entropy

Validation dataset: 0. 7794117647058824

Test dataset: 0. 7164179104477612

Logistic Regression:

SVM: