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| **Algorithm** | **Paramiter** |
| **Descition tree** | class\_weight: None,criterion : 'gini',max\_depth : 10,max\_features : None,max\_leaf\_nodes : None,min\_impurity\_decrease : 0.0,  min\_impurity\_split: None, min\_samples\_leaf: 1,min\_samples\_split: 2,min\_weight\_fraction\_leaf: 0.0,  presort: False,random\_state: None,splitter: 'best' |
| **Naïve Bayes** | alpha: 1.5,  class\_prior: None, fit\_prior: True |
| **SVM** | C: 1.0,  class\_weight: None,  dual: True,fit\_intercept: True,  intercept\_scaling: 1,loss: 'squared\_hinge',max\_iter: 1000,multi\_class: 'ovr',penalty: 'l2',random\_state: None,  tol: 0.0001,  verbose: 0 |
| **LR** | C: 1.0,  class\_weight: None,  dual: False,fit\_intercept: True,intercept\_scaling: 1,max\_iter: 100,multi\_class: 'ovr',n\_jobs: 1,  penalty: 'l2',random\_state: None,solver: 'liblinear',  tol: 0.0001,  verbose: 0,  warm\_start: False |
| **KNN** | algorithm: 'auto',leaf\_size: 30,  metric: 'minkowski',metric\_params: None,n\_jobs: 1,  n\_neighbors: 3,  p: 2,  weights: 'uniform' |
| **RNDOM fOREST** | bootstrap: True,class\_weight: None,criterion: 'gini',max\_depth: 50,max\_features: 'auto',max\_leaf\_nodes: None,min\_impurity\_decrease: 0.0,  min\_impurity\_split: None, min\_samples\_leaf: 1,min\_samples\_split: 2,min\_weight\_fraction\_leaf: 0.0,  n\_estimators: 10,  n\_jobs: 1,  oob\_score: False,random\_state: None,verbose: 0,  warm\_start: False |