## Report for Dataset pimaindians-diabetes

Model Score with: random_s	tate= 44 am	nd training	g=80%			
		precision				
SVC	75.974026	0.81	0.72	0.72		
RandomForestClassifier	80.519481	0.81	0.78	0.79		
LogisticRegression	79.220779	0.84	0.76	0.77		
DecisionTreeClassifier	77.272727	0.77	0.76	0.76		
KNeighborsClassifier	72.077922	0.72	0.69	0.69		
BaggingClassifier	75.324675	0.77	0.72	0.73		
XGBClassifier	74.025974	0.73	0.72	0.73		
MLPClassifier	67.532468	0.69	0.63	0.63		
GradientBoostingClassifier	<mark>79.220779</mark>	0.81	0.77	0.77		
Model Score with: random state= 42 and training=80%						
		precision		f1-score		
SVC	76.623377	0.75	0.72	0.73		
RandomForestClassifier	74.675325	0.72	0.72	0.72		
LogisticRegression	74.675325	0.73	0.73	0.73		
DecisionTreeClassifier	74.675325	0.73	0.74	0.73		
KNeighborsClassifier	66.233766	0.64	0.64	0.64		
BaggingClassifier	70.12987	0.67	0.67	0.67		
XGBClassifier	70.779221	0.69	0.70	0.69		
MLPClassifier	66.233766	0.62	0.60	0.60		
GradientBoostingClassifier	74.675325	0.73	0.73	0.73		
Model Score with: random_s		a training= precision		f1-score		
SVC	79.220779	0.77	0.71	0.73		
RandomForestClassifier	81.818182	0.79	0.77	0.78		
LogisticRegression	82.467532	0.80	0.77	0.78		
DecisionTreeClassifier	77.922078	0.74	0.76	0.75		
KNeighborsClassifier	75.324675	0.71	0.72	0.71		
BaggingClassifier	78.571429	0.75	0.75	0.75		
XGBClassifier	79.87013	0.76	0.78	0.77		
MLPClassifier	70.12987	0.65	0.64	0.64		
GradientBoostingClassifier	81.818182	0.79	0.79	0.79		
Model Score with: random_s				£1 22270		
SVC	75.520833	precision 0.81	0.70	0.71		
RandomForestClassifier	77.083333	0.78	0.74	0.75		
LogisticRegression	80.729167	0.76	0.74	0.78		
DecisionTreeClassifier	70.833333		0.69	0.69		
KNeighborsClassifier	73.958333			0.71		
BaggingClassifier	77.083333			0.74		
XGBClassifier	72.916667		0.71	0.71		
MLPClassifier	70.3125			0.70		
GradientBoostingClassifier			0.74	0.75		
Model Score with: random_s			_			
		precision				
SVC	72.916667	0.71	0.68	0.68		
RandomForestClassifier	74.479167		0.73	0.73		
LogisticRegression	72.916667					
DecisionTreeClassifier	69.270833		0.69	0.68		
KNeighborsClassifier	65.625			0.63		
BaggingClassifier	71.875	0.69	0.69	0.69		

XGBClassifier	73.958333	0.72	0.74	0.73			
MLPClassifier	68.75	0.67		0.59			
GradientBoostingClassifier		0.72	0.73	0.72			
Model Score with: random_state= 0 and training=75%							
_		_		f1-score			
SVC	77.083333	0.75	0.69	0.71			
RandomForestClassifier	77.083333	0.74	0.71	0.72			
LogisticRegression	79.166667	0.77	0.74	0.75			
DecisionTreeClassifier	76.041667	0.73	0.73	0.73			
KNeighborsClassifier	75.520833	0.72	0.71	0.71			
BaggingClassifier	77.604167	0.75		0.74			
XGBClassifier	79.166667	0.76	0.76	0.76			
MLPClassifier	74.4 <u>79167</u>	0.71	0.70	0.70			
GradientBoostingClassifier	81.25	0.80	0.76	0.77			
Model Score with: random_state= 44 and training=70%  Acc precision recall f1-score							
0110	-						
SVC	75.757576	0.80	0.70	0.71			
RandomForestClassifier	77.056277 80.519481	0.78 0.84	0.73	0.74 0.78			
LogisticRegression DecisionTreeClassifier	73.160173	0.72		0.78			
KNeighborsClassifier	75.757576	0.72		0.72			
BaggingClassifier	75.737370	0.74	0.72	0.73			
XGBClassifier	72.727273	0.71	0.70	0.70			
MLPClassifier	69.264069	0.68	0.64	0.65			
GradientBoostingClassifier		0.78	0.75	0.76			
Model Score with: random_s							
	=			f1-score			
SVC	73.593074	0.71	0.68	0.69			
RandomForestClassifier	73.593074	0.71	0.71	0.71			
RandomForestClassifier LogisticRegression	73.593074 74.025974	0.71 0.71	0.71 0.71	0.71 0.71			
RandomForestClassifier LogisticRegression DecisionTreeClassifier	73.593074 74.025974 69.264069	0.71 0.71 0.67	0.71 0.71 0.68	0.71 0.71 0.67			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier	73.593074 74.025974 69.264069 68.831169	0.71 0.71 0.67 0.66	0.71 0.71 0.68 0.66	0.71 0.71 0.67 0.66			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier	73.593074 74.025974 69.264069 68.831169 72.727273	0.71 0.71 0.67 0.66 0.70	0.71 0.71 0.68 0.66 0.70	0.71 0.71 0.67 0.66 0.70			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 72.727273	0.71 0.71 0.67 0.66 0.70	0.71 0.71 0.68 0.66 0.70 0.71	0.71 0.71 0.67 0.66 0.70			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier	73.593074 74.025974 69.264069 68.831169 72.727273	0.71 0.71 0.67 0.66 0.70 0.70	0.71 0.71 0.68 0.66 0.70 0.71	0.71 0.71 0.67 0.66 0.70 0.70			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 72.727273 73.593074	0.71 0.71 0.67 0.66 0.70	0.71 0.71 0.68 0.66 0.70 0.71	0.71 0.71 0.67 0.66 0.70			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 72.727273 73.593074 74.891775	0.71 0.71 0.67 0.66 0.70 0.70 0.71 0.72 raining=	0.71 0.71 0.68 0.66 0.70 0.71 0.70 0.73	0.71 0.71 0.67 0.66 0.70 0.70 0.70			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 72.727273 73.593074 74.891775	0.71 0.71 0.67 0.66 0.70 0.71 0.72 	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall	0.71 0.71 0.67 0.66 0.70 0.70			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s	73.593074 74.025974 69.264069 68.831169 72.727273 72.727273 73.593074 74.891775	0.71 0.71 0.67 0.66 0.70 0.71 0.72 raining= ecision 0.73	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67	0.71 0.71 0.67 0.66 0.70 0.70 0.70 0.73			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s  SVC RandomForestClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 73.593074 74.891775 state= 0 and t Acc pr 75.324675 76.190476	0.71 0.71 0.67 0.66 0.70 0.71 0.72 	0.71 0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67 0.70	0.71 0.71 0.67 0.66 0.70 0.70 0.70 0.73 f1-score 0.68 0.71			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s  SVC RandomForestClassifier LogisticRegression	73.593074 74.025974 69.264069 68.831169 72.727273 73.593074 74.891775 state= 0 and t Acc pr 75.324675 76.190476 77.922078	0.71 0.71 0.67 0.66 0.70 0.71 0.72 raining= ecision 0.73 0.73 0.76	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67 0.70 0.71	0.71 0.71 0.67 0.66 0.70 0.70 0.73 f1-score 0.68 0.71 0.73			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s  SVC RandomForestClassifier LogisticRegression DecisionTreeClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 73.593074 74.891775  state= 0 and t	0.71 0.71 0.67 0.66 0.70 0.71 0.72 	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67 0.70 0.71 0.73	0.71 0.71 0.67 0.66 0.70 0.70 0.73 f1-score 0.68 0.71 0.73 0.72			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s  SVC RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 73.593074 74.891775 state= 0 and t	0.71 0.71 0.67 0.66 0.70 0.71 0.72 	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67 0.70 0.71 0.73 0.69	0.71 0.71 0.67 0.66 0.70 0.70 0.73 f1-score 0.68 0.71 0.73 0.72 0.70			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s  SVC RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 73.593074 74.891775 state= 0 and t	0.71 0.71 0.67 0.66 0.70 0.71 0.72 	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67 0.70 0.71 0.73 0.69 0.71	0.71 0.71 0.67 0.66 0.70 0.70 0.73 f1-score 0.68 0.71 0.73 0.72 0.70 0.72			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s  SVC RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 73.593074 74.891775 75.324675 76.190476 77.922078 75.324675 74.89177 77.489177	0.71 0.71 0.67 0.66 0.70 0.71 0.72 	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67 0.70 0.71 0.73 0.69 0.71	0.71 0.71 0.67 0.66 0.70 0.70 0.73 f1-score 0.68 0.71 0.73 0.72 0.70 0.72			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s  SVC RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 73.593074 74.891775 75.324675 74.89177 77.489177 77.489177 69.69697	0.71 0.71 0.67 0.66 0.70 0.71 0.72 	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67 0.71 0.73 0.69 0.71 0.74 0.65	0.71 0.71 0.67 0.66 0.70 0.70 0.73 f1-score 0.68 0.71 0.73 0.72 0.70 0.72			
RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier MLPClassifier GradientBoostingClassifier  Model Score with: random_s  SVC RandomForestClassifier LogisticRegression DecisionTreeClassifier KNeighborsClassifier BaggingClassifier XGBClassifier	73.593074 74.025974 69.264069 68.831169 72.727273 73.593074 74.891775 74.89177 77.489177 69.69697 78.787879	0.71 0.71 0.67 0.66 0.70 0.71 0.72 	0.71 0.68 0.66 0.70 0.71 0.70 0.73  70% recall 0.67 0.71 0.73 0.69 0.71 0.74 0.65 0.74	0.71 0.71 0.67 0.66 0.70 0.70 0.73 f1-score 0.68 0.71 0.73 0.72 0.70 0.72			