

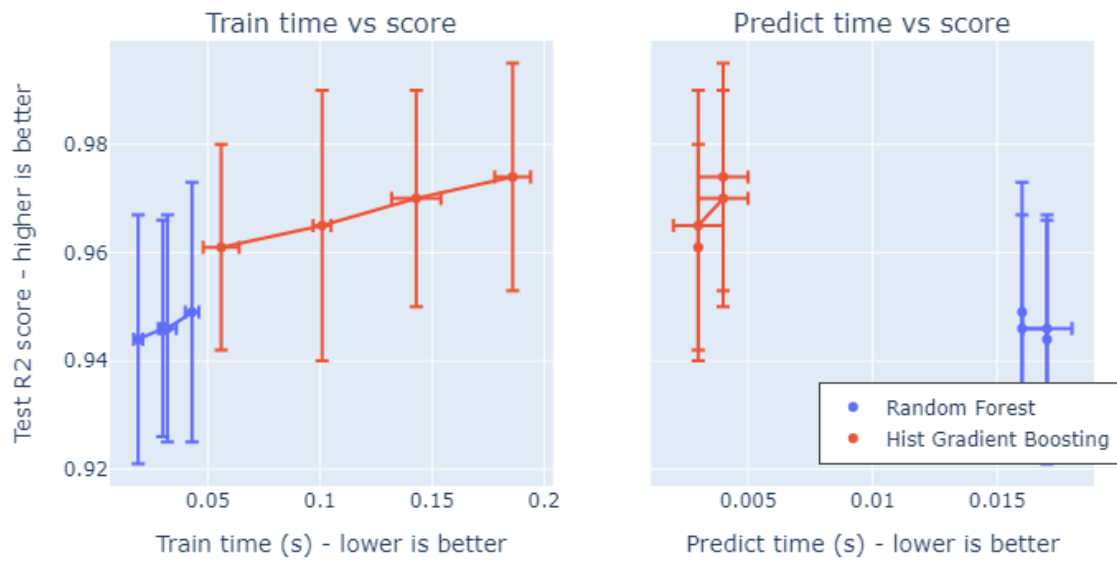
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Problem 1:

Random Forest results :

n_estimators	criterion	fold	score
10	gini	0	0.944444
10	gini	1	0.861111
10	gini	2	0.944444
10	gini	3	0.885714
10	gini	4	0.714286
10	entropy	0	0.972222
10	entropy	1	0.888889
10	entropy	2	0.944444
10	entropy	3	0.942857
10	entropy	4	0.685714
25	gini	0	0.916667
25	gini	1	0.972222
25	gini	2	0.944444
25	gini	3	1.000000
25	gini	4	0.885714
25	entropy	0	0.916667
25	entropy	1	0.861111
25	entropy	2	0.944444
25	entropy	3	1.000000
25	entropy	4	0.885714
50	gini	0	0.888889
50	gini	1	0.916667
50	gini	2	0.944444
50	gini	3	1.000000
50	gini	4	0.914286
50	entropy	0	0.916667
50	entropy	1	0.888889
50	entropy	2	0.888889
50	entropy	3	1.000000
50	entropy	4	0.857143

## Speed-score trade-off of tree-based ensembles



Problem 2: