

ML\_AdaBooster\_Regression

random_state	n_estimators	learning_rate	R2_ EVALUATION
2	500	1	0.874506
2	500	2	0.8734
1	500	1	0.849472
None	500	1	0.844747
None	500	1	0.8444
None	100	1	0.852989
None	100	2	0.866433

ML\_XGB\_Boosting\_Regression

objective	n_estimators	seed	eta	gamma	R2_ EVALUATION
Default	Default	Default	Default	Default	0.825776
reg:squarederror	10	123	Default	Default	0.878052
Default	Default	Default	0.3	50	0.825802
Default	Default	Default	0.2	50	0.834212
Default	Default	Default	0.1	50	0.854604
Default	Default	Default	0.05	50	0.869167
Default	Default	Default	0.03	50	0.873899

ML\_LightGBM\_Boosting\_Regression

n_estimators	learning_rate	max_depth	R2_ EVALUATION
Default	Default	Default	0.8660319
100	0.01	5	0.77628
100	0.05	5	0.887978
200	0.05	5	0.88194
500	0.05	5	0.872499

Good Model based on R2 Evalution  
LightGBM Scored 0.887978 r2 evalution