AdaBoost:

Estimator	# n_estimator	# Learning_Rate			Random_State	# R2_score
None	50		1	Linear	None	0.84615
None	50		1	Square	None	0.51845
None	50		1	Exponential	None	0.61534
None	100		1	Linear	None	0.85216
None	100		1	Square	None	0.49955
None	100		1	Exponential	None	0.53765
None	200		1	Linear	None	0.85323
None	200		1	Square	None	0.45852
None	200		1	Exponential	None	0.51716
None	300		1	Linear	None	0.86884
None	300		1	Square	None	0.45712
None	300		1	Exponential	None	0.48972
None	400		1	Linear	None	0.86715
None	400		1	Square	None	0.45112
None	400		1	Exponential	None	0.48207
None	500		1	Linear	None	0.85725
None	500		1	Square	None	0.447406
None	500		1	Exponential	None	0.47607

XGBOOST:

n_estimators	max_depth	eta	subsample	colsample_bytree	loss	booster	r2score
100	7	0.1	0.7	0.8	Squared_Error	gbtree	0.81798
100	7	0.1	0.7	0.8	Squared_Error	gblinear	0.71768
100	7	0.1	0.7	0.8	Squared_Error	dart	0.87486
100	7	0.1	0.7	0.8	absolute_error	gbtree	0.76745
100	7	0.1	0.7	0.8	absolute_error	gblinear	0.71523
100	7	0.1	0.7	0.8	absolute_error	dart	0.763108
100	7	0.1	0.7	0.8	huber	gbtree	0.82504
100	7	0.1	0.7	0.8	huber	gblinear	0.733105
100	7	0.1	0.7	0.8	huber	dart	0.80441
100	7	0.1	0.7	0.8	Quantile	gbtree	0.80094
100	7	0.1	0.7	0.8	Quantile	gblinear	0.69832
100	7	0.1	0.7	0.8	Quantile	dart	0.81376
500	7	0.1	0.7	0.8	Squared_Error	gbtree	0.83726
500	7	0.1	0.7	0.8	Squared_Error	gblinear	0.72345
500	7	0.1	0.7	0.8	Squared_Error	dart	0.81443
500	7	0.1	0.7	0.8	absolute_error	gbtree	0.77589
500	7	0.1	0.7	0.8	absolute_error	gblinear	0.73882
500	7	0.1	0.7	0.8	absolute_error	dart	0.82635
500	7	0.1	0.7	0.8	huber	gbtree	0.80014
500	7	0.1	0.7	0.8	huber	gblinear	0.72037
500	7	0.1	0.7	0.8	huber	dart	0.79243
500	7	0.1	0.7	0.8	Quantile	gbtree	0.83039
500	7	0.1	0.7	0.8	Quantile	gblinear	0.83039
500	7	0.1	0.7	0.8	Quantile	dart	0.79408

LGBM:

n_estimators v	learning_rate ∨	boosting_type ∨	r2_score ∨
50	0.1	gbdt	0.79849
50	0.1	dart	0.86154
100	0.1	gbdt	0.83048
100	0.1	dart	0.80595
500	0.1	gbdt	0.79859
500	0.1	dart	0.80007

Conclusion:

The Insurance charge prediction data set performed good in the boosting algorithms ie.

AdaBoost regressor, XGBoost regressor, LGBM regressor. The r2score value for these boosting algorithms are < than 0.99. By comparing these algorithm XGboost performed 1% greater than the Adaboost and LGBM.