max_features	n_estimators	min_sample_leaf	max_depth	training accuracy	valid accuracy
auto	50	25	None	0.6595	0.6472
auto	50	25	10	0.6324	0.6277
auto	50	25	20	0.6423	0.635
auto	50	25	40	0.6477	0.6379
auto	50	25	80	0.6515	0.6396
auto	50	50	None	0.6271	0.6199
auto	50	50	10	0.6143	0.6139
auto	50	50	20	0.6344	0.6326
auto	50	50	40	0.6312	0.6234
auto	50	50	80	0.6403	0.6379
auto	50	100	None	0.6086	0.6014
auto	50	100	10	0.5916	0.583
auto	50	100	20	0.6113	0.6069
auto	50	100	40	0.6147	0.6117
auto	50	100	80	0.6159	0.6114
auto	100	25	None	0.6597	0.6484
auto	100	25	10	0.6393	0.6309
auto	100	25	20	0.6493	0.642
auto	100	25	40	0.6564	0.6451
auto	100	25	80	0.6608	0.6484
auto	100	50	None	0.6391	0.6363
auto	100	50	10	0.6312	0.624
auto	100	50	20	0.6386	0.6376
auto	100	50	40	0.6426	0.636
auto	100	50	80	0.6386	0.6317
auto	100	100	None	0.6067	0.6046
auto	100	100	10	0.6142	0.6105
auto	100	100	20	0.6164	0.6103
auto	100	100	40	0.6128	0.6002
auto	100	100	80	0.6128	0.6111
auto	200	25	None	0.662	0.6454
auto	200	25	10	0.6427	0.6373
auto	200	25	20	0.655	0.6425
auto	200	25	40	0.6588	0.6455
auto	200	25	80	0.6593	0.6474
auto	200	50	None	0.6433	0.6372
auto	200	50	10	0.6343	0.6293
auto	200	50	20	0.6429	0.639
auto	200	50	40	0.6444	0.6402
auto	200	50	80	0.6425	0.6389
auto	200	100	None	0.6214	0.6186
auto	200	100	10	0.6201	0.6168
auto	200	100	20	0.6259	0.6208
auto	200	100	40	0.6165	0.6115
auto	200	100	80	0.6175	0.6156
sqrt	50	25	None	0.6505	0.6388
sqrt	50	25	10	0.6385	0.6328

max_features	n_estimators	min_sample_leaf	max_depth	training accuracy	valid accuracy
sqrt	50	25	20	0.6512	0.6374
sqrt	50	25	40	0.6524	0.6415
sqrt	50	25	80	0.6575	0.6466
sqrt	50	50	None	0.6352	0.6297
sqrt	50	50	10	0.6207	0.6112
sqrt	50	50	20	0.6299	0.6212
sqrt	50	50	40	0.6356	0.6322
sqrt	50	50	80	0.6349	0.6258
sqrt	50	100	None	0.6086	0.6077
sqrt	50	100	10	0.6044	0.6022
sqrt	50	100	20	0.6032	0.6067
sqrt	50	100	40	0.6053	0.5983
sqrt	50	100	80	0.6111	0.6074
sqrt	100	25	None	0.6594	0.6465
sqrt	100	25	10	0.6451	0.6339
sqrt	100	25	20	0.6509	0.6387
sqrt	100	25	40	0.6514	0.641
sqrt	100	25	80	0.6576	0.6449
sqrt	100	50	None	0.6436	0.6421
sqrt	100	50	10	0.6343	0.6321
sqrt	100	50	20	0.6408	0.6338
sqrt	100	50	40	0.6399	0.6364
sqrt	100	50	80	0.6404	0.6357
sqrt	100	100	None	0.6173	0.6136
sqrt	100	100	10	0.6174	0.6118
sqrt	100	100	20	0.6051	0.6108
sqrt	100	100	40	0.622	0.6163
sqrt	100	100	80	0.6151	0.6066
sqrt	200	25	None	0.6586	0.6468
sqrt	200	25	10	0.6449	0.6311
sqrt	200	25	20	0.6533	0.642
sqrt	200	25	40	0.658	0.649
sqrt	200	25	80	0.6609	0.6456
sqrt	200	50	None	0.6469	0.6404
sqrt	200	50	10	0.6365	0.6315
sqrt	200	50	20	0.6441	0.636
sqrt	200	50	40	0.6456	0.6414
sqrt	200	50	80	0.6461	0.6399
sqrt	200	100	None	0.6182	0.614
sqrt	200	100	10	0.6165	0.6153
sqrt	200	100	20	0.6258	0.6206
sqrt	200	100	40	0.6214	0.6187
sqrt	200	100	80	0.6184	0.6187
log2	50	25	None	0.5042	0.5052
log2	50	25	10	0.5118	0.5105
log2	50	25	20	0.5034	0.5018
log2	50	25	40	0.5112	0.5126

max_features	n_estimators	min_sample_leaf	max_depth	training accuracy	valid accuracy
log2	50	25	80	0.5294	0.5295
log2	50	50	None	0.5108	0.5093
log2	50	50	10	0.5067	0.5058
log2	50	50	20	0.5098	0.5093
log2	50	50	40	0.5058	0.5057
log2	50	50	80	0.513	0.5101
log2	50	100	None	0.5068	0.5046
log2	50	100	10	0.5092	0.5075
log2	50	100	20	0.5037	0.5043
log2	50	100	40	0.5108	0.5128
log2	50	100	80	0.5018	0.5025
log2	100	25	None	0.5142	0.511
log2	100	25	10	0.5384	0.5374
log2	100	25	20	0.5135	0.5123
log2	100	25	40	0.5228	0.5225
log2	100	25	80	0.5127	0.5122
log2	100	50	None	0.5125	0.5112
log2	100	50	10	0.5025	0.502
log2	100	50	20	0.5084	0.5082
log2	100	50	40	0.5091	0.5109
log2	100	50	80	0.5115	0.5129
log2	100	100	None	0.5092	0.5087
log2	100	100	10	0.529	0.5293
log2	100	100	20	0.5085	0.5082
log2	100	100	40	0.5191	0.5172
log2	100	100	80	0.5042	0.503
log2	200	25	None	0.5195	0.5182
log2	200	25	10	0.519	0.5182
log2	200	25	20	0.5081	0.5079
log2	200	25	40	0.5059	0.5037
log2	200	25	80	0.5127	0.5117
log2	200	50	None	0.5202	0.5216
log2	200	50	10	0.5101	0.5098
log2	200	50	20	0.5093	0.5084
log2	200	50	40	0.508	0.5074
log2	200	50	80	0.5175	0.516
log2	200	100	None	0.5019	0.5015
log2	200	100	10	0.5014	0.501
log2	200	100	20	0.5018	0.5018
log2	200	100	40	0.5051	0.5042
log2	200	100	80	0.5125	0.5119

max_features	n_estimators	min_sample_leaf	max_depth	training accuracy	valid accuracy	test accuracy	tes
sqrt	200	25	40	0.658	0.649	0.6466	0.7