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1 C:\Users\chris\anaconda3\envs\CreatePokeAI\python.exe
  C:/Users/chris/IdeaProjects/PokemonGame2/PokemonGame
  /src/CreateNewPokeAI/Models/ModelTesting/
  RegressionCaptureRateTests.py
2 81
3 (81, 62502)
4 (81,)
5 Data Loaded at 0.7099804000000001 seconds
6 Creating Models
7 Pipeline Made at 0.0007416000000000089 seconds
8
9 Linear_Regression
10 Creating Data for Linear_Regression_RUN_1
11 Model Made at 0.11515309999999968 seconds
12 Finding Best Fits and Testing Model
13 Created Estimates at 0.0012861000000001788 seconds
14 R Squared SCORE:
15 0.14367540328785544
16 Run Completed at 0.1167287999999974 seconds.
17
18 Creating Data for Linear_Regression_RUN_2
19 Model Made at 0.13528960000000012 seconds
20 Finding Best Fits and Testing Model
21 Created Estimates at 0.0011252000000001594 seconds
22 R Squared SCORE:
23 0.5746374559738792
24 Run Completed at 0.13680210000000015 seconds.
25
26 Creating Data for Linear_Regression_RUN_3
27 Model Made at 0.12829880000000005 seconds
28 Finding Best Fits and Testing Model
29 Created Estimates at 0.0010397000000001988 seconds
30 R Squared SCORE:
31 0.16218389245941034
32 Run Completed at 0.1297190999999998 seconds.
33
34 Creating Data for Linear_Regression_RUN_4
35 Model Made at 0.12638550000000004 seconds
36 Finding Best Fits and Testing Model
37 Created Estimates at 0.000810800000000004 seconds
38 R Squared SCORE:
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39 0.2777893300036308
40 Run Completed at 0.1274573999999994 seconds.
41
42 Creating Data for Linear_Regression_RUN_5
43 Model Made at 0.12557490000000016 seconds
44 Finding Best Fits and Testing Model
45 Created Estimates at 0.000824999999998536 seconds
46 R Squared SCORE:
47 0.6152101028443984
48 Run Completed at 0.12664420000000032 seconds.
49
50 Creating Data for Linear_Regression_RUN_6
51 Model Made at 0.12568460000000004 seconds
52 Finding Best Fits and Testing Model
53 Created Estimates at 0.000805999999998624 seconds
54 R Squared SCORE:
55 0.362952205684442
56 Run Completed at 0.1267334999999983 seconds.
57
58 Creating Data for Linear_Regression_RUN_7
59 Model Made at 0.126927599999997 seconds
60 Finding Best Fits and Testing Model
61 Created Estimates at 0.001006499999999102 seconds
62 R Squared SCORE:
63 0.503070513838936
64 Run Completed at 0.1282320999999996 seconds.
65
66 Creating Data for Linear_Regression_RUN_8
67 Model Made at 0.12227800000000011 seconds
68 Finding Best Fits and Testing Model
69 Created Estimates at 0.000916199999998116 seconds
70 R Squared SCORE:
71 -0.1163343661003775
72 Run Completed at 0.1234452999999976 seconds.
73
74 Creating Data for Linear_Regression_RUN_9
75 Model Made at 0.12483390000000005 seconds
76 Finding Best Fits and Testing Model
77 Created Estimates at 0.001796099999999672 seconds
78 R Squared SCORE:
79 0.5252722080914841
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80 Run Completed at 0.1271619999999978 seconds.
81
82 Creating Data for Linear_Regression_RUN_10
83 Model Made at 0.140786299999998 seconds
84 Finding Best Fits and Testing Model
85 Created Estimates at 0.00177100000000189 seconds
86 R Squared SCORE:
87 -0.08899681790591685
88 Run Completed at 0.1431206999999988 seconds.
89
90 Linear_Regression all runs completed at 1.2867669
seconds.
91 Lasso_Regression
92 Creating Data for Lasso_Regression_RUN_1
93 Model Made at 2.0342303 seconds
94 Finding Best Fits and Testing Model
95 Created Estimates at 0.001558000000001704 seconds
96 R Squared SCORE:
97 -0.16223067082967013
98 Run Completed at 2.0362507 seconds.
99
100 Creating Data for Lasso_Regression_RUN_2
101 Model Made at 0.906685999999997 seconds
102 Finding Best Fits and Testing Model
103 Created Estimates at 0.001659899999999364 seconds
104 R Squared SCORE:
105 0.5016905172228783
106 Run Completed at 0.908742600000001 seconds.
107
108 Creating Data for Lasso_Regression_RUN_3
109 Model Made at 0.766326799999999 seconds
110 Finding Best Fits and Testing Model
111 Created Estimates at 0.001093199999996833 seconds
112 R Squared SCORE:
113 0.42506417176622957
114 Run Completed at 0.7677578 seconds.
115
116 Creating Data for Lasso_Regression_RUN_4
117 Model Made at 1.397358999999998 seconds
118 Finding Best Fits and Testing Model
119 Created Estimates at 0.000818999999999031 seconds
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120 R Squared SCORE:  
121 0.5269371463931769  
122 Run Completed at 1.3984197999999992 seconds.  
123  
124 Creating Data for Lasso_Regression_RUN_5  
125 Model Made at 2.0344464 seconds  
126 Finding Best Fits and Testing Model  
127 Created Estimates at 0.0027085000000006687 seconds  
128 R Squared SCORE:  
129 0.48122091242058496  
130 Run Completed at 2.037665999999998 seconds.  
131  
132 Creating Data for Lasso_Regression_RUN_6  
133 Model Made at 0.6726513999999995 seconds  
134 Finding Best Fits and Testing Model  
135 Created Estimates at 0.0010147000000007012 seconds  
136 R Squared SCORE:  
137 0.7089913332344696  
138 Run Completed at 0.674010199999997 seconds.  
139  
140 Creating Data for Lasso_Regression_RUN_7  
141 Model Made at 1.004947100000008 seconds  
142 Finding Best Fits and Testing Model  
143 Created Estimates at 0.001030399999994318 seconds  
144 R Squared SCORE:  
145 -0.1886259159828274  
146 Run Completed at 1.006267299999993 seconds.  
147  
148 Creating Data for Lasso_Regression_RUN_8  
149 Model Made at 1.8334192999999992 seconds  
150 Finding Best Fits and Testing Model  
151 Created Estimates at 0.001398100000001179 seconds  
152 R Squared SCORE:  
153 0.5815773628277181  
154 Run Completed at 1.8352503000000002 seconds.  
155  
156 Creating Data for Lasso_Regression_RUN_9  
157 Model Made at 1.6342751999999994 seconds  
158 Finding Best Fits and Testing Model  
159 Created Estimates at 0.001251399999992365 seconds  
160 R Squared SCORE:
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161 0.005263100948053934
162 Run Completed at 1.6359037999999995 seconds.
163
164 Creating Data for Lasso_Regression_RUN_10
165 Model Made at 1.4575235999999983 seconds
166 Finding Best Fits and Testing Model
167 Created Estimates at 0.0008623000000014258 seconds
168 R Squared SCORE:
169 0.22799689675366464
170 Run Completed at 1.458678899999999 seconds.
171
172 Lasso_Regression all runs completed at 13.7596323
seconds.
173 SVM_RBF
174 Creating Data for SVM_RBF_RUN_1
175 Model Made at 0.21219310000000036 seconds
176 Finding Best Fits and Testing Model
177 Created Estimates at 0.04242710000000116 seconds
178 R Squared SCORE:
179 -0.15620408541105935
180 Run Completed at 0.2552650000000014 seconds.
181
182 Creating Data for SVM_RBF_RUN_2
183 Model Made at 0.2160371000000012 seconds
184 Finding Best Fits and Testing Model
185 Created Estimates at 0.031261899999996956 seconds
186 R Squared SCORE:
187 -0.7299328254896609
188 Run Completed at 0.2476459999999996 seconds.
189
190 Creating Data for SVM_RBF_RUN_3
191 Model Made at 0.18719540000000023 seconds
192 Finding Best Fits and Testing Model
193 Created Estimates at 0.030015799999997483 seconds
194 R Squared SCORE:
195 -0.0064166765520332625
196 Run Completed at 0.21769959999999955 seconds.
197
198 Creating Data for SVM_RBF_RUN_4
199 Model Made at 0.21826949999999812 seconds
200 Finding Best Fits and Testing Model
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201 Created Estimates at 0.03525050000000007 seconds
202 R Squared SCORE:
203 -0.007360216425469579
204 Run Completed at 0.25401120000000077 seconds.
205
206 Creating Data for SVM_RBF_RUN_5
207 Model Made at 0.1802878000000021 seconds
208 Finding Best Fits and Testing Model
209 Created Estimates at 0.03735719999999887 seconds
210 R Squared SCORE:
211 -0.47415277219721674
212 Run Completed at 0.2181294999999987 seconds.
213
214 Creating Data for SVM_RBF_RUN_6
215 Model Made at 0.18632860000000306 seconds
216 Finding Best Fits and Testing Model
217 Created Estimates at 0.03541079999999752 seconds
218 R Squared SCORE:
219 -0.17437450099981455
220 Run Completed at 0.22214970000000278 seconds.
221
222 Creating Data for SVM_RBF_RUN_7
223 Model Made at 0.20408180000000087 seconds
224 Finding Best Fits and Testing Model
225 Created Estimates at 0.03466279999999955 seconds
226 R Squared SCORE:
227 -0.10253762807298172
228 Run Completed at 0.2391988000000005 seconds.
229
230 Creating Data for SVM_RBF_RUN_8
231 Model Made at 0.2270474 seconds
232 Finding Best Fits and Testing Model
233 Created Estimates at 0.036222899999998504 seconds
234 R Squared SCORE:
235 -0.39701056652862343
236 Run Completed at 0.2638497999999914 seconds.
237
238 Creating Data for SVM_RBF_RUN_9
239 Model Made at 0.20082470000000185 seconds
240 Finding Best Fits and Testing Model
241 Created Estimates at 0.031195000000000306 seconds
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242 R Squared SCORE:  
243 -0.3487100144067481  
244 Run Completed at 0.23243600000000342 seconds.  
245  
246 Creating Data for SVM_RBF_RUN_10  
247 Model Made at 0.2022869000000007 seconds  
248 Finding Best Fits and Testing Model  
249 Created Estimates at 0.03319619999999901 seconds  
250 R Squared SCORE:  
251 -0.03255991598610741  
252 Run Completed at 0.23591289999999887 seconds.  
253  
254 SVM_RBF all runs completed at 2.3869545000000016  
seconds.  
255 SVM_LINEAR  
256 Creating Data for SVM_LINEAR_RUN_1  
257 Model Made at 0.18506409999999818 seconds  
258 Finding Best Fits and Testing Model  
259 Created Estimates at 0.01822170000000156 seconds  
260 R Squared SCORE:  
261 -0.7331077916786948  
262 Run Completed at 0.20378329999999778 seconds.  
263  
264 Creating Data for SVM_LINEAR_RUN_2  
265 Model Made at 0.21875400000000056 seconds  
266 Finding Best Fits and Testing Model  
267 Created Estimates at 0.012778399999998413 seconds  
268 R Squared SCORE:  
269 -4.643165640904053  
270 Run Completed at 0.2320715 seconds.  
271  
272 Creating Data for SVM_LINEAR_RUN_3  
273 Model Made at 0.18613709999999983 seconds  
274 Finding Best Fits and Testing Model  
275 Created Estimates at 0.01320649999999901 seconds  
276 R Squared SCORE:  
277 0.24646410613771297  
278 Run Completed at 0.1998049999999978 seconds.  
279  
280 Creating Data for SVM_LINEAR_RUN_4  
281 Model Made at 0.20040009999999953 seconds
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282 Finding Best Fits and Testing Model
283 Created Estimates at 0.0132855000000206 seconds
284 R Squared SCORE:
285 0.012130959935977681
286 Run Completed at 0.2142181000000008 seconds.
287
288 Creating Data for SVM_LINEAR_RUN_5
289 Model Made at 0.21150120000000072 seconds
290 Finding Best Fits and Testing Model
291 Created Estimates at 0.01916519999999977 seconds
292 R Squared SCORE:
293 -1.132625648752632
294 Run Completed at 0.2311630999999984 seconds.
295
296 Creating Data for SVM_LINEAR_RUN_6
297 Model Made at 0.2358425000000004 seconds
298 Finding Best Fits and Testing Model
299 Created Estimates at 0.017532100000000383 seconds
300 R Squared SCORE:
301 0.02551421933915654
302 Run Completed at 0.2543858999999905 seconds.
303
304 Creating Data for SVM_LINEAR_RUN_7
305 Model Made at 0.22136850000000052 seconds
306 Finding Best Fits and Testing Model
307 Created Estimates at 0.0185987999999947 seconds
308 R Squared SCORE:
309 -5.930896565035828
310 Run Completed at 0.2403180999999965 seconds.
311
312 Creating Data for SVM_LINEAR_RUN_8
313 Model Made at 0.2202959 seconds
314 Finding Best Fits and Testing Model
315 Created Estimates at 0.01653600000002105 seconds
316 R Squared SCORE:
317 0.5742427145396168
318 Run Completed at 0.2377342999999962 seconds.
319
320 Creating Data for SVM_LINEAR_RUN_9
321 Model Made at 0.20956870000000194 seconds
322 Finding Best Fits and Testing Model
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323 Created Estimates at 0.01534450000001204 seconds
324 R Squared SCORE:
325 0.04070935119792851
326 Run Completed at 0.225367600000002 seconds.
327
328 Creating Data for SVM_LINEAR_RUN_10
329 Model Made at 0.2303907999999856 seconds
330 Finding Best Fits and Testing Model
331 Created Estimates at 0.0167853999999984 seconds
332 R Squared SCORE:
333 -5.162226466380904
334 Run Completed at 0.2476295999999978 seconds.
335
336 SVM_LINEAR all runs completed at 2.287158899999998
seconds.
337 SVM_POLY
338 Creating Data for SVM_POLY_RUN_1
339 Model Made at 0.1927130999999886 seconds
340 Finding Best Fits and Testing Model
341 Created Estimates at 0.0145714999999885 seconds
342 R Squared SCORE:
343 -0.07867736527832281
344 Run Completed at 0.2077168999999765 seconds.
345
346 Creating Data for SVM_POLY_RUN_2
347 Model Made at 0.213036599999988 seconds
348 Finding Best Fits and Testing Model
349 Created Estimates at 0.0181696000000023 seconds
350 R Squared SCORE:
351 -1.4009471348052918
352 Run Completed at 0.2316637999999975 seconds.
353
354 Creating Data for SVM_POLY_RUN_3
355 Model Made at 0.1855182000000063 seconds
356 Finding Best Fits and Testing Model
357 Created Estimates at 0.01133249999998191 seconds
358 R Squared SCORE:
359 -37.45300747977982
360 Run Completed at 0.1971664999999802 seconds.
361
362 Creating Data for SVM_POLY_RUN_4
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363 Model Made at 0.193270999999993 seconds
364 Finding Best Fits and Testing Model
365 Created Estimates at 0.012186100000000977 seconds
366 R Squared SCORE:
367 -0.19319265248373152
368 Run Completed at 0.20585949999999897 seconds.
369
370 Creating Data for SVM_POLY_RUN_5
371 Model Made at 0.1732259999999966 seconds
372 Finding Best Fits and Testing Model
373 Created Estimates at 0.013084200000001545 seconds
374 R Squared SCORE:
375 -0.05057281381247547
376 Run Completed at 0.1867720999999989 seconds.
377
378 Creating Data for SVM_POLY_RUN_6
379 Model Made at 0.21853630000000024 seconds
380 Finding Best Fits and Testing Model
381 Created Estimates at 0.01400780000000168 seconds
382 R Squared SCORE:
383 -0.2219502790070822
384 Run Completed at 0.23296380000000028 seconds.
385
386 Creating Data for SVM_POLY_RUN_7
387 Model Made at 0.18660750000000093 seconds
388 Finding Best Fits and Testing Model
389 Created Estimates at 0.015703199999997253 seconds
390 R Squared SCORE:
391 -0.12721188118954152
392 Run Completed at 0.20272620000000074 seconds.
393
394 Creating Data for SVM_POLY_RUN_8
395 Model Made at 0.2002119999999826 seconds
396 Finding Best Fits and Testing Model
397 Created Estimates at 0.013226500000001806 seconds
398 R Squared SCORE:
399 -1.7974199886929334
400 Run Completed at 0.21392279999999886 seconds.
401
402 Creating Data for SVM_POLY_RUN_9
403 Model Made at 0.20036520000000024 seconds
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404 Finding Best Fits and Testing Model
405 Created Estimates at 0.015782600000001423 seconds
406 R Squared SCORE:
407 -0.21618465337321724
408 Run Completed at 0.2167829000000019 seconds.
409
410 Creating Data for SVM_POLY_RUN_10
411 Model Made at 0.18751800000000074 seconds
412 Finding Best Fits and Testing Model
413 Created Estimates at 0.01215919999999926 seconds
414 R Squared SCORE:
415 0.0433318408982557
416 Run Completed at 0.20008490000000023 seconds.
417
418 SVM_POLY all runs completed at 2.096335500000002
seconds.
419 SVM_SIGMOID
420 Creating Data for SVM_SIGMOID_RUN_1
421 Model Made at 0.1762227000000003 seconds
422 Finding Best Fits and Testing Model
423 Created Estimates at 0.01322299999999985 seconds
424 R Squared SCORE:
425 -0.9460112926609907
426 Run Completed at 0.1899030999999866 seconds.
427
428 Creating Data for SVM_SIGMOID_RUN_2
429 Model Made at 0.1810688999999964 seconds
430 Finding Best Fits and Testing Model
431 Created Estimates at 0.0136397999999998 seconds
432 R Squared SCORE:
433 -0.25809583160424077
434 Run Completed at 0.1951429000000045 seconds.
435
436 Creating Data for SVM_SIGMOID_RUN_3
437 Model Made at 0.1990298999999932 seconds
438 Finding Best Fits and Testing Model
439 Created Estimates at 0.01413349999999799 seconds
440 R Squared SCORE:
441 -0.44896518861240353
442 Run Completed at 0.2135248999999946 seconds.
443
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444 Creating Data for SVM_SIGMOID_RUN_4
445 Model Made at 0.1834634999999845 seconds
446 Finding Best Fits and Testing Model
447 Created Estimates at 0.013146400000000114 seconds
448 R Squared SCORE:
449 -0.13816183015017147
450 Run Completed at 0.19707539999999923 seconds.
451
452 Creating Data for SVM_SIGMOID_RUN_5
453 Model Made at 0.19499000000000066 seconds
454 Finding Best Fits and Testing Model
455 Created Estimates at 0.013337899999999792 seconds
456 R Squared SCORE:
457 -0.12150832652837118
458 Run Completed at 0.20877040000000235 seconds.
459
460 Creating Data for SVM_SIGMOID_RUN_6
461 Model Made at 0.2040329000000014 seconds
462 Finding Best Fits and Testing Model
463 Created Estimates at 0.013113900000000456 seconds
464 R Squared SCORE:
465 -0.020267154199276494
466 Run Completed at 0.2176660000000115 seconds.
467
468 Creating Data for SVM_SIGMOID_RUN_7
469 Model Made at 0.20431890000000053 seconds
470 Finding Best Fits and Testing Model
471 Created Estimates at 0.013971500000000248 seconds
472 R Squared SCORE:
473 -0.3034175944226081
474 Run Completed at 0.21875070000000107 seconds.
475
476 Creating Data for SVM_SIGMOID_RUN_8
477 Model Made at 0.18920320000000146 seconds
478 Finding Best Fits and Testing Model
479 Created Estimates at 0.013480099999998885 seconds
480 R Squared SCORE:
481 -0.32935256872266794
482 Run Completed at 0.20316270000000003 seconds.
483
484 Creating Data for SVM_SIGMOID_RUN_9
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485 Model Made at 0.2174657999999938 seconds
486 Finding Best Fits and Testing Model
487 Created Estimates at 0.014478600000000341 seconds
488 R Squared SCORE:
489 -0.20397269880620295
490 Run Completed at 0.2323970000000024 seconds.
491
492 Creating Data for SVM_SIGMOID_RUN_10
493 Model Made at 0.18324120000000121 seconds
494 Finding Best Fits and Testing Model
495 Created Estimates at 0.011696300000000548 seconds
496 R Squared SCORE:
497 -0.9672134151366325
498 Run Completed at 0.19537190000000138 seconds.
499
500 SVM_SIGMOID all runs completed at 2.0723974 seconds.
501 KNN_Neighbor1
502 Creating Data for KNN_Neighbor1_RUN_1
503 Model Made at 0.07653540000000092 seconds
504 Finding Best Fits and Testing Model
505 Created Estimates at 0.014677800000001184 seconds
506 R Squared SCORE:
507 -0.07375346260387805
508 Run Completed at 0.09163530000000009 seconds.
509
510 Creating Data for KNN_Neighbor1_RUN_2
511 Model Made at 0.07359950000000026 seconds
512 Finding Best Fits and Testing Model
513 Created Estimates at 0.014011400000001117 seconds
514 R Squared SCORE:
515 0.5510142523188297
516 Run Completed at 0.08810640000000092 seconds.
517
518 Creating Data for KNN_Neighbor1_RUN_3
519 Model Made at 0.0724778999999991 seconds
520 Finding Best Fits and Testing Model
521 Created Estimates at 0.0122563000000000664 seconds
522 R Squared SCORE:
523 -1.4100021556369908
524 Run Completed at 0.0850204999999883 seconds.
525
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526 Creating Data for KNN_Neighbor1_RUN_4
527 Model Made at 0.0793570999999929 seconds
528 Finding Best Fits and Testing Model
529 Created Estimates at 0.019088400000001116 seconds
530 R Squared SCORE:
531 -4.669814884775217
532 Run Completed at 0.09888069999999871 seconds.
533
534 Creating Data for KNN_Neighbor1_RUN_5
535 Model Made at 0.08672460000000015 seconds
536 Finding Best Fits and Testing Model
537 Created Estimates at 0.02547819999998452 seconds
538 R Squared SCORE:
539 -0.3100335420683473
540 Run Completed at 0.11291539999999856 seconds.
541
542 Creating Data for KNN_Neighbor1_RUN_6
543 Model Made at 0.0961138999999886 seconds
544 Finding Best Fits and Testing Model
545 Created Estimates at 0.0165257000000253 seconds
546 R Squared SCORE:
547 -0.14930848415255005
548 Run Completed at 0.11311690000000141 seconds.
549
550 Creating Data for KNN_Neighbor1_RUN_7
551 Model Made at 0.08966530000000006 seconds
552 Finding Best Fits and Testing Model
553 Created Estimates at 0.01804279999999914 seconds
554 R Squared SCORE:
555 -1.128591166558751
556 Run Completed at 0.10810960000000236 seconds.
557
558 Creating Data for KNN_Neighbor1_RUN_8
559 Model Made at 0.09306179999999742 seconds
560 Finding Best Fits and Testing Model
561 Created Estimates at 0.01636820000002275 seconds
562 R Squared SCORE:
563 -0.16108389080999475
564 Run Completed at 0.10988009999999804 seconds.
565
566 Creating Data for KNN_Neighbor1_RUN_9
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567 Model Made at 0.0802101999999979 seconds
568 Finding Best Fits and Testing Model
569 Created Estimates at 0.01489589999999074 seconds
570 R Squared SCORE:
571 0.4113992459510294
572 Run Completed at 0.0955216999999904 seconds.
573
574 Creating Data for KNN_Neighbor1_RUN_10
575 Model Made at 0.0785103999999898 seconds
576 Finding Best Fits and Testing Model
577 Created Estimates at 0.012198100000002654 seconds
578 R Squared SCORE:
579 -1.3137115252846998
580 Run Completed at 0.09098810000000057 seconds.
581
582 KNN_Neighbor1 all runs completed at 0.
      994825799999974 seconds.
583 KNN_Neighbor3
584 Creating Data for KNN_Neighbor3_RUN_1
585 Model Made at 0.0778278999999906 seconds
586 Finding Best Fits and Testing Model
587 Created Estimates at 0.01581440000000006 seconds
588 R Squared SCORE:
589 -1.1006548784298218
590 Run Completed at 0.0941188000000039 seconds.
591
592 Creating Data for KNN_Neighbor3_RUN_2
593 Model Made at 0.0786154999999795 seconds
594 Finding Best Fits and Testing Model
595 Created Estimates at 0.01384380000000073 seconds
596 R Squared SCORE:
597 -0.1986488662402348
598 Run Completed at 0.0929177999999861 seconds.
599
600 Creating Data for KNN_Neighbor3_RUN_3
601 Model Made at 0.0803703999999962 seconds
602 Finding Best Fits and Testing Model
603 Created Estimates at 0.01478790000001741 seconds
604 R Squared SCORE:
605 0.003971920182566091
606 Run Completed at 0.0955298000000133 seconds.
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607
608 Creating Data for KNN_Neighbor3_RUN_4
609 Model Made at 0.0900350000000031 seconds
610 Finding Best Fits and Testing Model
611 Created Estimates at 0.0158492999999929 seconds
612 R Squared SCORE:
613 0.6082203965077357
614 Run Completed at 0.1062972000000002 seconds.
615
616 Creating Data for KNN_Neighbor3_RUN_5
617 Model Made at 0.0884782999999846 seconds
618 Finding Best Fits and Testing Model
619 Created Estimates at 0.01540520000000008 seconds
620 R Squared SCORE:
621 0.13296311116075477
622 Run Completed at 0.10420690000000121 seconds.
623
624 Creating Data for KNN_Neighbor3_RUN_6
625 Model Made at 0.0835088000000006 seconds
626 Finding Best Fits and Testing Model
627 Created Estimates at 0.01464490000000405 seconds
628 R Squared SCORE:
629 -0.9330762161739403
630 Run Completed at 0.09858210000000156 seconds.
631
632 Creating Data for KNN_Neighbor3_RUN_7
633 Model Made at 0.0826156000000046 seconds
634 Finding Best Fits and Testing Model
635 Created Estimates at 0.0151141999999993 seconds
636 R Squared SCORE:
637 0.34299912905374264
638 Run Completed at 0.09802630000000079 seconds.
639
640 Creating Data for KNN_Neighbor3_RUN_8
641 Model Made at 0.0798697999999733 seconds
642 Finding Best Fits and Testing Model
643 Created Estimates at 0.016616100000000245 seconds
644 R Squared SCORE:
645 -0.5757539173987605
646 Run Completed at 0.09692559999999872 seconds.
647
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```
648 Creating Data for KNN_Neighbor3_RUN_9
649 Model Made at 0.0824004999999854 seconds
650 Finding Best Fits and Testing Model
651 Created Estimates at 0.01369929999999897 seconds
652 R Squared SCORE:
653 -1.0121262229571446
654 Run Completed at 0.09646270000000001 seconds.
655
656 Creating Data for KNN_Neighbor3_RUN_10
657 Model Made at 0.07470130000000097 seconds
658 Finding Best Fits and Testing Model
659 Created Estimates at 0.0169224999999973 seconds
660 R Squared SCORE:
661 -0.1615296467762002
662 Run Completed at 0.09199730000000272 seconds.
663
664 KNN_Neighbor3 all runs completed at 0.
975669499999986 seconds.
665 KNN_Neighbor5
666 Creating Data for KNN_Neighbor5_RUN_1
667 Model Made at 0.08082710000000048 seconds
668 Finding Best Fits and Testing Model
669 Created Estimates at 0.01348069999998791 seconds
670 R Squared SCORE:
671 -0.26820389148072366
672 Run Completed at 0.09472450000000165 seconds.
673
674 Creating Data for KNN_Neighbor5_RUN_2
675 Model Made at 0.0843819999999796 seconds
676 Finding Best Fits and Testing Model
677 Created Estimates at 0.01702159999999637 seconds
678 R Squared SCORE:
679 -0.006238399627820357
680 Run Completed at 0.10178900000000013 seconds.
681
682 Creating Data for KNN_Neighbor5_RUN_3
683 Model Made at 0.0934474999999999 seconds
684 Finding Best Fits and Testing Model
685 Created Estimates at 0.0172875000000019 seconds
686 R Squared SCORE:
687 0.3591129243910004
```

```
688 Run Completed at 0.11116260000000011 seconds.  
689  
690 Creating Data for KNN_Neighbor5_RUN_4  
691 Model Made at 0.0890055000000251 seconds  
692 Finding Best Fits and Testing Model  
693 Created Estimates at 0.0170557000000023 seconds  
694 R Squared SCORE:  
695 0.3213844386651872  
696 Run Completed at 0.1064701000000279 seconds.  
697  
698 Creating Data for KNN_Neighbor5_RUN_5  
699 Model Made at 0.0910852999999959 seconds  
700 Finding Best Fits and Testing Model  
701 Created Estimates at 0.01838070000001582 seconds  
702 R Squared SCORE:  
703 -0.4144442797750443  
704 Run Completed at 0.109963699999998 seconds.  
705  
706 Creating Data for KNN_Neighbor5_RUN_6  
707 Model Made at 0.0877029999999764 seconds  
708 Finding Best Fits and Testing Model  
709 Created Estimates at 0.01729540000001848 seconds  
710 R Squared SCORE:  
711 0.002430133657351119  
712 Run Completed at 0.1054356999999747 seconds.  
713  
714 Creating Data for KNN_Neighbor5_RUN_7  
715 Model Made at 0.0898773999999889 seconds  
716 Finding Best Fits and Testing Model  
717 Created Estimates at 0.01591790000001595 seconds  
718 R Squared SCORE:  
719 0.011210572984841405  
720 Run Completed at 0.1062240000000098 seconds.  
721  
722 Creating Data for KNN_Neighbor5_RUN_8  
723 Model Made at 0.0868119000000072 seconds  
724 Finding Best Fits and Testing Model  
725 Created Estimates at 0.019571599999999023 seconds  
726 R Squared SCORE:  
727 0.062131646587068046  
728 Run Completed at 0.10676009999999891 seconds.
```

```
729
730 Creating Data for KNN_Neighbor5_RUN_9
731 Model Made at 0.091658500000012 seconds
732 Finding Best Fits and Testing Model
733 Created Estimates at 0.014504800000000984 seconds
734 R Squared SCORE:
735 -0.38770069781421235
736 Run Completed at 0.10654650000000032 seconds.
737
738 Creating Data for KNN_Neighbor5_RUN_10
739 Model Made at 0.07883430000000047 seconds
740 Finding Best Fits and Testing Model
741 Created Estimates at 0.014921799999999763 seconds
742 R Squared SCORE:
743 0.11640736589271417
744 Run Completed at 0.094230599999995 seconds.
745
746 KNN_Neighbor5 all runs completed at 1.
    043992700000004 seconds.
747 KNN_Neighbor7
748 Creating Data for KNN_Neighbor7_RUN_1
749 Model Made at 0.08181820000000073 seconds
750 Finding Best Fits and Testing Model
751 Created Estimates at 0.014906299999999817 seconds
752 R Squared SCORE:
753 -0.49219089881759737
754 Run Completed at 0.09710650000000243 seconds.
755
756 Creating Data for KNN_Neighbor7_RUN_2
757 Model Made at 0.08840920000000096 seconds
758 Finding Best Fits and Testing Model
759 Created Estimates at 0.01876220000001172 seconds
760 R Squared SCORE:
761 -0.6381731993850632
762 Run Completed at 0.10756870000000163 seconds.
763
764 Creating Data for KNN_Neighbor7_RUN_3
765 Model Made at 0.08703919999999954 seconds
766 Finding Best Fits and Testing Model
767 Created Estimates at 0.016796300000002873 seconds
768 R Squared SCORE:
```

```
769 0.34762080248678995
770 Run Completed at 0.1042319999999966 seconds.
771
772 Creating Data for KNN_Neighbor7_RUN_4
773 Model Made at 0.0875475999999706 seconds
774 Finding Best Fits and Testing Model
775 Created Estimates at 0.01688610000000068 seconds
776 R Squared SCORE:
777 0.23781640386473635
778 Run Completed at 0.1048668999999754 seconds.
779
780 Creating Data for KNN_Neighbor7_RUN_5
781 Model Made at 0.1237805999999991 seconds
782 Finding Best Fits and Testing Model
783 Created Estimates at 0.01684370000000257 seconds
784 R Squared SCORE:
785 -0.058115208843957156
786 Run Completed at 0.1410145000000007 seconds.
787
788 Creating Data for KNN_Neighbor7_RUN_6
789 Model Made at 0.0968654999999983 seconds
790 Finding Best Fits and Testing Model
791 Created Estimates at 0.0173127999999913 seconds
792 R Squared SCORE:
793 -9.73359243697479
794 Run Completed at 0.1145944999999904 seconds.
795
796 Creating Data for KNN_Neighbor7_RUN_7
797 Model Made at 0.0864748000000013 seconds
798 Finding Best Fits and Testing Model
799 Created Estimates at 0.015992000000000672 seconds
800 R Squared SCORE:
801 0.33932768240753297
802 Run Completed at 0.10285520000000048 seconds.
803
804 Creating Data for KNN_Neighbor7_RUN_8
805 Model Made at 0.08719419999999 seconds
806 Finding Best Fits and Testing Model
807 Created Estimates at 0.018971200000002852 seconds
808 R Squared SCORE:
809 -1.1437698096812663
```

```
810 Run Completed at 0.10659790000000058 seconds.  
811  
812 Creating Data for KNN_Neighbor7_RUN_9  
813 Model Made at 0.0956676999999991 seconds  
814 Finding Best Fits and Testing Model  
815 Created Estimates at 0.0184119000000026 seconds  
816 R Squared SCORE:  
817 0.020008900238310146  
818 Run Completed at 0.11448369999999741 seconds.  
819  
820 Creating Data for KNN_Neighbor7_RUN_10  
821 Model Made at 0.0964953999999845 seconds  
822 Finding Best Fits and Testing Model  
823 Created Estimates at 0.015966899999998674 seconds  
824 R Squared SCORE:  
825 0.10988224938431823  
826 Run Completed at 0.1129125000000002 seconds.  
827  
828 KNN_Neighbor7 all runs completed at 1.  
106985999999991 seconds.  
829 KNN_Neighbor9  
830 Creating Data for KNN_Neighbor9_RUN_1  
831 Model Made at 0.0808172999999965 seconds  
832 Finding Best Fits and Testing Model  
833 Created Estimates at 0.01607650000000493 seconds  
834 R Squared SCORE:  
835 -0.0977401833215985  
836 Run Completed at 0.0973527000000185 seconds.  
837  
838 Creating Data for KNN_Neighbor9_RUN_2  
839 Model Made at 0.0849399999999957 seconds  
840 Finding Best Fits and Testing Model  
841 Created Estimates at 0.01645940000002233 seconds  
842 R Squared SCORE:  
843 -0.6621268863639047  
844 Run Completed at 0.1017860000000006 seconds.  
845  
846 Creating Data for KNN_Neighbor9_RUN_3  
847 Model Made at 0.0865945000000035 seconds  
848 Finding Best Fits and Testing Model  
849 Created Estimates at 0.0150985000000057 seconds
```

```
850 R Squared SCORE:  
851 0.18890059559119898  
852 Run Completed at 0.10199950000000158 seconds.  
853  
854 Creating Data for KNN_Neighbor9_RUN_4  
855 Model Made at 0.08266620000000202 seconds  
856 Finding Best Fits and Testing Model  
857 Created Estimates at 0.016674800000000545 seconds  
858 R Squared SCORE:  
859 -0.33130469340922786  
860 Run Completed at 0.09970440000000025 seconds.  
861  
862 Creating Data for KNN_Neighbor9_RUN_5  
863 Model Made at 0.07768169999999941 seconds  
864 Finding Best Fits and Testing Model  
865 Created Estimates at 0.014317200000000696 seconds  
866 R Squared SCORE:  
867 -0.39174483596410825  
868 Run Completed at 0.0922985999999945 seconds.  
869  
870 Creating Data for KNN_Neighbor9_RUN_6  
871 Model Made at 0.07968550000000008 seconds  
872 Finding Best Fits and Testing Model  
873 Created Estimates at 0.01426469999998243 seconds  
874 R Squared SCORE:  
875 0.17932317141933507  
876 Run Completed at 0.094248999999978 seconds.  
877  
878 Creating Data for KNN_Neighbor9_RUN_7  
879 Model Made at 0.07742299999999958 seconds  
880 Finding Best Fits and Testing Model  
881 Created Estimates at 0.01374889999999509 seconds  
882 R Squared SCORE:  
883 -0.11168343600891673  
884 Run Completed at 0.0915524999999882 seconds.  
885  
886 Creating Data for KNN_Neighbor9_RUN_8  
887 Model Made at 0.08216879999999804 seconds  
888 Finding Best Fits and Testing Model  
889 Created Estimates at 0.014422400000000835 seconds  
890 R Squared SCORE:
```

```
891 -0.10395249919761373
892 Run Completed at 0.09701379999999915 seconds.
893
894 Creating Data for KNN_Neighbor9_RUN_9
895 Model Made at 0.0894643999999711 seconds
896 Finding Best Fits and Testing Model
897 Created Estimates at 0.015651000000001858 seconds
898 R Squared SCORE:
899 0.20432769165712628
900 Run Completed at 0.10554599999999681 seconds.
901
902 Creating Data for KNN_Neighbor9_RUN_10
903 Model Made at 0.07997780000000176 seconds
904 Finding Best Fits and Testing Model
905 Created Estimates at 0.01294439999998524 seconds
906 R Squared SCORE:
907 -7.714947129071433
908 Run Completed at 0.09342690000000076 seconds.
909
910 KNN_Neighbor9 all runs completed at 0.
9755968999999993 seconds.
911 DescTree_NoMaxDepth
912 Creating Data for DescTree_NoMaxDepth_RUN_1
913 Model Made at 0.7216056000000002 seconds
914 Finding Best Fits and Testing Model
915 Created Estimates at 0.001864599999975515 seconds
916 R Squared SCORE:
917 -1.1806793143314378
918 Run Completed at 0.7240060999999969 seconds.
919
920 Creating Data for DescTree_NoMaxDepth_RUN_2
921 Model Made at 0.5936180999999969 seconds
922 Finding Best Fits and Testing Model
923 Created Estimates at 0.0013134000000007973 seconds
924 R Squared SCORE:
925 0.4039931163224828
926 Run Completed at 0.5951993000000009 seconds.
927
928 Creating Data for DescTree_NoMaxDepth_RUN_3
929 Model Made at 0.6049428999999975 seconds
930 Finding Best Fits and Testing Model
```

```
931 Created Estimates at 0.001300600000004292 seconds
932 R Squared SCORE:
933 -1.5459887298400155
934 Run Completed at 0.6065705999999977 seconds.
935
936 Creating Data for DescTree_NoMaxDepth_RUN_4
937 Model Made at 0.5470901999999995 seconds
938 Finding Best Fits and Testing Model
939 Created Estimates at 0.0013122000000009848 seconds
940 R Squared SCORE:
941 0.2208777730933011
942 Run Completed at 0.5486518000000018 seconds.
943
944 Creating Data for DescTree_NoMaxDepth_RUN_5
945 Model Made at 0.4443981000000008 seconds
946 Finding Best Fits and Testing Model
947 Created Estimates at 0.001957900000000734 seconds
948 R Squared SCORE:
949 -0.2650776289004344
950 Run Completed at 0.4468170000000029 seconds.
951
952 Creating Data for DescTree_NoMaxDepth_RUN_6
953 Model Made at 0.4999947999999961 seconds
954 Finding Best Fits and Testing Model
955 Created Estimates at 0.001307099999982291 seconds
956 R Squared SCORE:
957 0.08119351056990509
958 Run Completed at 0.501554800000001 seconds.
959
960 Creating Data for DescTree_NoMaxDepth_RUN_7
961 Model Made at 0.6237416000000024 seconds
962 Finding Best Fits and Testing Model
963 Created Estimates at 0.001249299999977883 seconds
964 R Squared SCORE:
965 0.08141830529890226
966 Run Completed at 0.6252339000000049 seconds.
967
968 Creating Data for DescTree_NoMaxDepth_RUN_8
969 Model Made at 0.5671751 seconds
970 Finding Best Fits and Testing Model
971 Created Estimates at 0.00112909999999994 seconds
```

```
972 R Squared SCORE:  
973 0.07529663617870708  
974 Run Completed at 0.5685349000000031 seconds.  
975  
976 Creating Data for DescTree_NoMaxDepth_RUN_9  
977 Model Made at 0.6036320000000046 seconds  
978 Finding Best Fits and Testing Model  
979 Created Estimates at 0.001137299999996344 seconds  
980 R Squared SCORE:  
981 -0.27699370302660986  
982 Run Completed at 0.6051356000000041 seconds.  
983  
984 Creating Data for DescTree_NoMaxDepth_RUN_10  
985 Model Made at 0.6702651000000017 seconds  
986 Finding Best Fits and Testing Model  
987 Created Estimates at 0.0012596999999985314 seconds  
988 R Squared SCORE:  
989 -3.9218574514038878  
990 Run Completed at 0.6717763999999988 seconds.  
991  
992 DescTree_NoMaxDepth all runs completed at 5.  
     897374999999997 seconds.  
993 DescTree_MaxDepth100  
994 Creating Data for DescTree_MaxDepth100_RUN_1  
995 Model Made at 0.5739957000000047 seconds  
996 Finding Best Fits and Testing Model  
997 Created Estimates at 0.0018613999999956832 seconds  
998 R Squared SCORE:  
999 -1.1646125199503459  
1000 Run Completed at 0.5761871000000056 seconds.  
1001  
1002 Creating Data for DescTree_MaxDepth100_RUN_2  
1003 Model Made at 0.6164373000000012 seconds  
1004 Finding Best Fits and Testing Model  
1005 Created Estimates at 0.0013545999999990954 seconds  
1006 R Squared SCORE:  
1007 -0.19502959842141743  
1008 Run Completed at 0.6181722999999977 seconds.  
1009  
1010 Creating Data for DescTree_MaxDepth100_RUN_3  
1011 Model Made at 0.5918519000000018 seconds
```

```
1012 Finding Best Fits and Testing Model
1013 Created Estimates at 0.0013337999999976091 seconds
1014 R Squared SCORE:
1015 -1.869867512782001
1016 Run Completed at 0.5934768000000048 seconds.
1017
1018 Creating Data for DescTree_MaxDepth100_RUN_4
1019 Model Made at 0.517275699999999 seconds
1020 Finding Best Fits and Testing Model
1021 Created Estimates at 0.0014654999999947904 seconds
1022 R Squared SCORE:
1023 -1.2867640286149973
1024 Run Completed at 0.5190783999999979 seconds.
1025
1026 Creating Data for DescTree_MaxDepth100_RUN_5
1027 Model Made at 0.50163090000000021 seconds
1028 Finding Best Fits and Testing Model
1029 Created Estimates at 0.0018132999999949106 seconds
1030 R Squared SCORE:
1031 0.9722935235466353
1032 Run Completed at 0.5039884999999984 seconds.
1033
1034 Creating Data for DescTree_MaxDepth100_RUN_6
1035 Model Made at 0.54244210000000024 seconds
1036 Finding Best Fits and Testing Model
1037 Created Estimates at 0.0011411999999992872 seconds
1038 R Squared SCORE:
1039 0.4405623620659903
1040 Run Completed at 0.5438200999999978 seconds.
1041
1042 Creating Data for DescTree_MaxDepth100_RUN_7
1043 Model Made at 0.5783114999999981 seconds
1044 Finding Best Fits and Testing Model
1045 Created Estimates at 0.0022060000000010405 seconds
1046 R Squared SCORE:
1047 0.0272026688907423
1048 Run Completed at 0.5809803000000002 seconds.
1049
1050 Creating Data for DescTree_MaxDepth100_RUN_8
1051 Model Made at 0.4675256000000019 seconds
1052 Finding Best Fits and Testing Model
```

```
1053 Created Estimates at 0.001160899999950242 seconds
1054 R Squared SCORE:
1055 0.15098016801287006
1056 Run Completed at 0.4689306000000002 seconds.
1057
1058 Creating Data for DescTree_MaxDepth100_RUN_9
1059 Model Made at 0.5630307000000059 seconds
1060 Finding Best Fits and Testing Model
1061 Created Estimates at 0.0011921999999984223 seconds
1062 R Squared SCORE:
1063 -1.560142609868938
1064 Run Completed at 0.5644637000000046 seconds.
1065
1066 Creating Data for DescTree_MaxDepth100_RUN_10
1067 Model Made at 0.5095264999999998 seconds
1068 Finding Best Fits and Testing Model
1069 Created Estimates at 0.0012636000000014747 seconds
1070 R Squared SCORE:
1071 -1.9002363413666394
1072 Run Completed at 0.5111923999999988 seconds.
1073
1074 DescTree_MaxDepth100 all runs completed at 5.
        4807950000000005 seconds.
1075 DescTree_MaxDepth500
1076 Creating Data for DescTree_MaxDepth500_RUN_1
1077 Model Made at 0.4358183000000011 seconds
1078 Finding Best Fits and Testing Model
1079 Created Estimates at 0.0013614000000004012 seconds
1080 R Squared SCORE:
1081 0.00882500000000194
1082 Run Completed at 0.4374257000000057 seconds.
1083
1084 Creating Data for DescTree_MaxDepth500_RUN_2
1085 Model Made at 0.7134068000000013 seconds
1086 Finding Best Fits and Testing Model
1087 Created Estimates at 0.001180800000000204 seconds
1088 R Squared SCORE:
1089 -0.9592364930443222
1090 Run Completed at 0.7148299999999992 seconds.
1091
1092 Creating Data for DescTree_MaxDepth500_RUN_3
```

```
1093 Model Made at 0.463861399999999 seconds
1094 Finding Best Fits and Testing Model
1095 Created Estimates at 0.0011852000000018847 seconds
1096 R Squared SCORE:
1097 0.6879686271900458
1098 Run Completed at 0.4652980000000042 seconds.
1099
1100 Creating Data for DescTree_MaxDepth500_RUN_4
1101 Model Made at 0.5552883999999949 seconds
1102 Finding Best Fits and Testing Model
1103 Created Estimates at 0.0012036000000037461 seconds
1104 R Squared SCORE:
1105 0.3629694687812709
1106 Run Completed at 0.5567272999999986 seconds.
1107
1108 Creating Data for DescTree_MaxDepth500_RUN_5
1109 Model Made at 0.547143400000003 seconds
1110 Finding Best Fits and Testing Model
1111 Created Estimates at 0.001152099999998768 seconds
1112 R Squared SCORE:
1113 -0.1784833924103142
1114 Run Completed at 0.5485353999999987 seconds.
1115
1116 Creating Data for DescTree_MaxDepth500_RUN_6
1117 Model Made at 0.5916972999999999 seconds
1118 Finding Best Fits and Testing Model
1119 Created Estimates at 0.0012194999999977085 seconds
1120 R Squared SCORE:
1121 -1.0118457520864386
1122 Run Completed at 0.5931534999999997 seconds.
1123
1124 Creating Data for DescTree_MaxDepth500_RUN_7
1125 Model Made at 0.5190575000000024 seconds
1126 Finding Best Fits and Testing Model
1127 Created Estimates at 0.0014015000000000555 seconds
1128 R Squared SCORE:
1129 0.14988814317673382
1130 Run Completed at 0.5207839999999999 seconds.
1131
1132 Creating Data for DescTree_MaxDepth500_RUN_8
1133 Model Made at 0.43851090000000426 seconds
```

```
1134 Finding Best Fits and Testing Model
1135 Created Estimates at 0.0016028000000005704 seconds
1136 R Squared SCORE:
1137 -1.1144586166439105
1138 Run Completed at 0.440474100000003 seconds.
1139
1140 Creating Data for DescTree_MaxDepth500_RUN_9
1141 Model Made at 0.48175020000000046 seconds
1142 Finding Best Fits and Testing Model
1143 Created Estimates at 0.0012264000000000183 seconds
1144 R Squared SCORE:
1145 -1.0973405664718925
1146 Run Completed at 0.4832150000000013 seconds.
1147
1148 Creating Data for DescTree_MaxDepth500_RUN_10
1149 Model Made at 0.53219640000000037 seconds
1150 Finding Best Fits and Testing Model
1151 Created Estimates at 0.0013080000000016412 seconds
1152 R Squared SCORE:
1153 -2.3720816166372374
1154 Run Completed at 0.5337508 seconds.
1155
1156 DescTree_MaxDepth500 all runs completed at 5.
294663799999995 seconds.
1157 DescTree_MaxDepth1000
1158 Creating Data for DescTree_MaxDepth1000_RUN_1
1159 Model Made at 0.5161020999999977 seconds
1160 Finding Best Fits and Testing Model
1161 Created Estimates at 0.0013117999999963104 seconds
1162 R Squared SCORE:
1163 -0.35557727927557137
1164 Run Completed at 0.517826399999997 seconds.
1165
1166 Creating Data for DescTree_MaxDepth1000_RUN_2
1167 Model Made at 0.5994535999999968 seconds
1168 Finding Best Fits and Testing Model
1169 Created Estimates at 0.00173330000000050447 seconds
1170 R Squared SCORE:
1171 -0.3943607790616497
1172 Run Completed at 0.601541300000001 seconds.
1173
```

```
1174 Creating Data for DescTree_MaxDepth1000_RUN_3
1175 Model Made at 0.5460367000000019 seconds
1176 Finding Best Fits and Testing Model
1177 Created Estimates at 0.0011548000000018988 seconds
1178 R Squared SCORE:
1179 0.0704441917057953
1180 Run Completed at 0.5474223000000009 seconds.
1181
1182 Creating Data for DescTree_MaxDepth1000_RUN_4
1183 Model Made at 0.6414285000000035 seconds
1184 Finding Best Fits and Testing Model
1185 Created Estimates at 0.0011539999999996553 seconds
1186 R Squared SCORE:
1187 -0.06682604735883424
1188 Run Completed at 0.6428166999999974 seconds.
1189
1190 Creating Data for DescTree_MaxDepth1000_RUN_5
1191 Model Made at 0.5946157999999997 seconds
1192 Finding Best Fits and Testing Model
1193 Created Estimates at 0.0012100000000003774 seconds
1194 R Squared SCORE:
1195 -0.5669556519661101
1196 Run Completed at 0.5960658999999993 seconds.
1197
1198 Creating Data for DescTree_MaxDepth1000_RUN_6
1199 Model Made at 0.5691052000000028 seconds
1200 Finding Best Fits and Testing Model
1201 Created Estimates at 0.001185299999995948 seconds
1202 R Squared SCORE:
1203 0.8815842678009169
1204 Run Completed at 0.5705317999999977 seconds.
1205
1206 Creating Data for DescTree_MaxDepth1000_RUN_7
1207 Model Made at 0.4629835 seconds
1208 Finding Best Fits and Testing Model
1209 Created Estimates at 0.0017527999999984445 seconds
1210 R Squared SCORE:
1211 -1.3219696969696968
1212 Run Completed at 0.46508349999999865 seconds.
1213
1214 Creating Data for DescTree_MaxDepth1000_RUN_8
```

```
1215 Model Made at 0.5389187999999976 seconds
1216 Finding Best Fits and Testing Model
1217 Created Estimates at 0.001810300000002485 seconds
1218 R Squared SCORE:
1219 -0.21099399436205424
1220 Run Completed at 0.5412357999999955 seconds.
1221
1222 Creating Data for DescTree_MaxDepth1000_RUN_9
1223 Model Made at 0.5771610999999979 seconds
1224 Finding Best Fits and Testing Model
1225 Created Estimates at 0.0019526000000027466 seconds
1226 R Squared SCORE:
1227 -4.958378970427163
1228 Run Completed at 0.5794773999999947 seconds.
1229
1230 Creating Data for DescTree_MaxDepth1000_RUN_10
1231 Model Made at 0.5121010000000012 seconds
1232 Finding Best Fits and Testing Model
1233 Created Estimates at 0.001223099999997146 seconds
1234 R Squared SCORE:
1235 0.02209056817823718
1236 Run Completed at 0.5136018999999976 seconds.
1237
1238 DescTree_MaxDepth1000 all runs completed at 5.
      576128199999999 seconds.
1239 RandomForest_MaxTrees50
1240 Creating Data for RandomForest_MaxTrees50_RUN_1
1241 Model Made at 12.1595588 seconds
1242 Finding Best Fits and Testing Model
1243 Created Estimates at 0.004375699999997096 seconds
1244 R Squared SCORE:
1245 -0.03256915275111383
1246 Run Completed at 12.16417119999998 seconds.
1247
1248 Creating Data for RandomForest_MaxTrees50_RUN_2
1249 Model Made at 13.353836799999996 seconds
1250 Finding Best Fits and Testing Model
1251 Created Estimates at 0.004527900000013574 seconds
1252 R Squared SCORE:
1253 0.44843581328514115
1254 Run Completed at 13.358860399999998 seconds.
```

```
1255
1256 Creating Data for RandomForest_MaxTrees50_RUN_3
1257 Model Made at 13.323798999999994 seconds
1258 Finding Best Fits and Testing Model
1259 Created Estimates at 0.006307700000007799 seconds
1260 R Squared SCORE:
1261 -1.1734985863390146
1262 Run Completed at 13.33039249999988 seconds.
1263
1264 Creating Data for RandomForest_MaxTrees50_RUN_4
1265 Model Made at 14.729371399999991 seconds
1266 Finding Best Fits and Testing Model
1267 Created Estimates at 0.005866100000005758 seconds
1268 R Squared SCORE:
1269 -2.2131234048029413
1270 Run Completed at 14.73564059999996 seconds.
1271
1272 Creating Data for RandomForest_MaxTrees50_RUN_5
1273 Model Made at 13.02441419999995 seconds
1274 Finding Best Fits and Testing Model
1275 Created Estimates at 0.00401500000000965 seconds
1276 R Squared SCORE:
1277 -0.848469586374696
1278 Run Completed at 13.02866120000002 seconds.
1279
1280 Creating Data for RandomForest_MaxTrees50_RUN_6
1281 Model Made at 14.00118059999998 seconds
1282 Finding Best Fits and Testing Model
1283 Created Estimates at 0.00432019999995111 seconds
1284 R Squared SCORE:
1285 0.6281833530022507
1286 Run Completed at 14.00588360000004 seconds.
1287
1288 Creating Data for RandomForest_MaxTrees50_RUN_7
1289 Model Made at 12.8615858 seconds
1290 Finding Best Fits and Testing Model
1291 Created Estimates at 0.00569419999993543 seconds
1292 R Squared SCORE:
1293 0.6481845840589417
1294 Run Completed at 12.86760820000006 seconds.
1295
```

```
1296 Creating Data for RandomForest_MaxTrees50_RUN_8
1297 Model Made at 13.128587100000004 seconds
1298 Finding Best Fits and Testing Model
1299 Created Estimates at 0.004263999999977841 seconds
1300 R Squared SCORE:
1301 -1.32555789800834
1302 Run Completed at 13.1331026 seconds.
1303
1304 Creating Data for RandomForest_MaxTrees50_RUN_9
1305 Model Made at 12.975781899999987 seconds
1306 Finding Best Fits and Testing Model
1307 Created Estimates at 0.004016100000001188 seconds
1308 R Squared SCORE:
1309 -0.12838877125230308
1310 Run Completed at 12.980031800000006 seconds.
1311
1312 Creating Data for RandomForest_MaxTrees50_RUN_10
1313 Model Made at 13.680522599999989 seconds
1314 Finding Best Fits and Testing Model
1315 Created Estimates at 0.0044003000000145676 seconds
1316 R Squared SCORE:
1317 0.40171329698291536
1318 Run Completed at 13.685198200000002 seconds.
1319
1320 RandomForest_MaxTrees50 all runs completed at 133.
2901438 seconds.
1321 RandomForest_MaxTrees100
1322 Creating Data for RandomForest_MaxTrees100_RUN_1
1323 Model Made at 25.859841199999977 seconds
1324 Finding Best Fits and Testing Model
1325 Created Estimates at 0.007663200000024517 seconds
1326 R Squared SCORE:
1327 0.24428334759565662
1328 Run Completed at 25.86798139999999 seconds.
1329
1330 Creating Data for RandomForest_MaxTrees100_RUN_2
1331 Model Made at 28.098730099999983 seconds
1332 Finding Best Fits and Testing Model
1333 Created Estimates at 0.008032200000002376 seconds
1334 R Squared SCORE:
1335 0.7599698041464913
```

```
1336 Run Completed at 28.107083799999998 seconds.  
1337  
1338 Creating Data for RandomForest_MaxTrees100_RUN_3  
1339 Model Made at 25.45769239999985 seconds  
1340 Finding Best Fits and Testing Model  
1341 Created Estimates at 0.01022849999982432 seconds  
1342 R Squared SCORE:  
1343 0.11501215052958569  
1344 Run Completed at 25.46816949999988 seconds.  
1345  
1346 Creating Data for RandomForest_MaxTrees100_RUN_4  
1347 Model Made at 26.1514722 seconds  
1348 Finding Best Fits and Testing Model  
1349 Created Estimates at 0.00705579999989176 seconds  
1350 R Squared SCORE:  
1351 0.6415593253039804  
1352 Run Completed at 26.15884779999999 seconds.  
1353  
1354 Creating Data for RandomForest_MaxTrees100_RUN_5  
1355 Model Made at 26.00972760000002 seconds  
1356 Finding Best Fits and Testing Model  
1357 Created Estimates at 0.0067741999999952895 seconds  
1358 R Squared SCORE:  
1359 0.4108240192416426  
1360 Run Completed at 26.01674639999988 seconds.  
1361  
1362 Creating Data for RandomForest_MaxTrees100_RUN_6  
1363 Model Made at 25.214902100000018 seconds  
1364 Finding Best Fits and Testing Model  
1365 Created Estimates at 0.010417899999993097 seconds  
1366 R Squared SCORE:  
1367 -0.17451251449899519  
1368 Run Completed at 25.225830700000017 seconds.  
1369  
1370 Creating Data for RandomForest_MaxTrees100_RUN_7  
1371 Model Made at 23.857429000000025 seconds  
1372 Finding Best Fits and Testing Model  
1373 Created Estimates at 0.006743900000003578 seconds  
1374 R Squared SCORE:  
1375 0.11621324609411321  
1376 Run Completed at 23.864446600000008 seconds.
```

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1377
1378 Creating Data for RandomForest_MaxTrees100_RUN_8
1379 Model Made at 26.868069700000035 seconds
1380 Finding Best Fits and Testing Model
1381 Created Estimates at 0.01131229999985953 seconds
1382 R Squared SCORE:
1383 0.15970713745485443
1384 Run Completed at 26.87971659999995 seconds.
1385
1386 Creating Data for RandomForest_MaxTrees100_RUN_9
1387 Model Made at 26.278373399999964 seconds
1388 Finding Best Fits and Testing Model
1389 Created Estimates at 0.006783000000041284 seconds
1390 R Squared SCORE:
1391 0.6588613501748526
1392 Run Completed at 26.28538759999998 seconds.
1393
1394 Creating Data for RandomForest_MaxTrees100_RUN_10
1395 Model Made at 26.402392399999997 seconds
1396 Finding Best Fits and Testing Model
1397 Created Estimates at 0.01108649999997624 seconds
1398 R Squared SCORE:
1399 0.2635698464291347
1400 Run Completed at 26.413882899999976 seconds.
1401
1402 RandomForest_MaxTrees100 all runs completed at 260.
28860010000005 seconds.
1403 RandomForest_MaxTrees150
1404 Creating Data for RandomForest_MaxTrees150_RUN_1
1405 Model Made at 38.89550200000002 seconds
1406 Finding Best Fits and Testing Model
1407 Created Estimates at 0.009526699999980792 seconds
1408 R Squared SCORE:
1409 0.42654809840110464
1410 Run Completed at 38.905379700000026 seconds.
1411
1412 Creating Data for RandomForest_MaxTrees150_RUN_2
1413 Model Made at 38.50366260000004 seconds
1414 Finding Best Fits and Testing Model
1415 Created Estimates at 0.009275199999933648 seconds
1416 R Squared SCORE:
```

```
1417 0.4573003891752151
1418 Run Completed at 38.513183800000036 seconds.
1419
1420 Creating Data for RandomForest_MaxTrees150_RUN_3
1421 Model Made at 38.92529120000006 seconds
1422 Finding Best Fits and Testing Model
1423 Created Estimates at 0.009106099999939943 seconds
1424 R Squared SCORE:
1425 0.5045561197265094
1426 Run Completed at 38.934763400000065 seconds.
1427
1428 Creating Data for RandomForest_MaxTrees150_RUN_4
1429 Model Made at 38.52208310000003 seconds
1430 Finding Best Fits and Testing Model
1431 Created Estimates at 0.010448799999949188 seconds
1432 R Squared SCORE:
1433 0.4889872925342599
1434 Run Completed at 38.53277420000006 seconds.
1435
1436 Creating Data for RandomForest_MaxTrees150_RUN_5
1437 Model Made at 38.945640300000036 seconds
1438 Finding Best Fits and Testing Model
1439 Created Estimates at 0.009050000000002001 seconds
1440 R Squared SCORE:
1441 0.39217504923587054
1442 Run Completed at 38.95492350000006 seconds.
1443
1444 Creating Data for RandomForest_MaxTrees150_RUN_6
1445 Model Made at 37.98504330000003 seconds
1446 Finding Best Fits and Testing Model
1447 Created Estimates at 0.010318399999960093 seconds
1448 R Squared SCORE:
1449 0.5062251080612084
1450 Run Completed at 37.99570629999994 seconds.
1451
1452 Creating Data for RandomForest_MaxTrees150_RUN_7
1453 Model Made at 37.390642999999955 seconds
1454 Finding Best Fits and Testing Model
1455 Created Estimates at 0.009478199999989556 seconds
1456 R Squared SCORE:
1457 0.12104432127469278
```

```
1458 Run Completed at 37.400491399999964 seconds.  
1459  
1460 Creating Data for RandomForest_MaxTrees150_RUN_8  
1461 Model Made at 38.9940666 seconds  
1462 Finding Best Fits and Testing Model  
1463 Created Estimates at 0.013400400000023183 seconds  
1464 R Squared SCORE:  
1465 -0.3999170602709796  
1466 Run Completed at 39.00788769999997 seconds.  
1467  
1468 Creating Data for RandomForest_MaxTrees150_RUN_9  
1469 Model Made at 40.32346210000003 seconds  
1470 Finding Best Fits and Testing Model  
1471 Created Estimates at 0.010485000000016953 seconds  
1472 R Squared SCORE:  
1473 0.4955428032539335  
1474 Run Completed at 40.33434280000006 seconds.  
1475  
1476 Creating Data for RandomForest_MaxTrees150_RUN_10  
1477 Model Made at 40.74294039999995 seconds  
1478 Finding Best Fits and Testing Model  
1479 Created Estimates at 0.011304800000061732 seconds  
1480 R Squared SCORE:  
1481 0.3604290332054859  
1482 Run Completed at 40.75451779999992 seconds.  
1483  
1484 RandomForest_MaxTrees150 all runs completed at 389.  
3344891 seconds.  
1485 R^2 SCORES GREATEST TO LOWEST:  
1486 DescTree_MaxDepth100_RUN_5: 0.9722935235466353  
1487 DescTree_MaxDepth1000_RUN_6: 0.8815842678009169  
1488 RandomForest_MaxTrees100_RUN_2: 0.7599698041464913  
1489 Lasso_Regression_RUN_6: 0.7089913332344696  
1490 DescTree_MaxDepth500_RUN_3: 0.6879686271900458  
1491 RandomForest_MaxTrees100_RUN_9: 0.6588613501748526  
1492 RandomForest_MaxTrees50_RUN_7: 0.6481845840589417  
1493 RandomForest_MaxTrees100_RUN_4: 0.6415593253039804  
1494 RandomForest_MaxTrees50_RUN_6: 0.6281833530022507  
1495 Linear_Regression_RUN_5: 0.6152101028443984  
1496 KNN_Neighbor3_RUN_4: 0.6082203965077357  
1497 Lasso_Regression_RUN_8: 0.5815773628277181
```

1498	Linear_Regression_RUN_2:	0.5746374559738792
1499	SVM_LINEAR_RUN_8:	0.5742427145396168
1500	KNN_Neighbor1_RUN_2:	0.5510142523188297
1501	Lasso_Regression_RUN_4:	0.5269371463931769
1502	Linear_Regression_RUN_9:	0.5252722080914841
1503	RandomForest_MaxTrees150_RUN_6:	0.5062251080612084
1504	RandomForest_MaxTrees150_RUN_3:	0.5045561197265094
1505	Linear_Regression_RUN_7:	0.503070513838936
1506	Lasso_Regression_RUN_2:	0.5016905172228783
1507	RandomForest_MaxTrees150_RUN_9:	0.4955428032539335
1508	RandomForest_MaxTrees150_RUN_4:	0.4889872925342599
1509	Lasso_Regression_RUN_5:	0.48122091242058496
1510	RandomForest_MaxTrees150_RUN_2:	0.4573003891752151
1511	RandomForest_MaxTrees50_RUN_2:	0.44843581328514115
1512	DescTree_MaxDepth100_RUN_6:	0.4405623620659903
1513	RandomForest_MaxTrees150_RUN_1:	0.42654809840110464
1514	Lasso_Regression_RUN_3:	0.42506417176622957
1515	KNN_Neighbor1_RUN_9:	0.4113992459510294
1516	RandomForest_MaxTrees100_RUN_5:	0.4108240192416426
1517	DescTree_NoMaxDepth_RUN_2:	0.4039931163224828
1518	RandomForest_MaxTrees50_RUN_10:	0.40171329698291536
1519	RandomForest_MaxTrees150_RUN_5:	0.39217504923587054
1520	DescTree_MaxDepth500_RUN_4:	0.3629694687812709
1521	Linear_Regression_RUN_6:	0.362952205684442
1522	RandomForest_MaxTrees150_RUN_10:	0.3604290332054859
1523	KNN_Neighbor5_RUN_3:	0.3591129243910004
1524	KNN_Neighbor7_RUN_3:	0.34762080248678995
1525	KNN_Neighbor3_RUN_7:	0.34299912905374264
1526	KNN_Neighbor7_RUN_7:	0.33932768240753297
1527	KNN_Neighbor5_RUN_4:	0.3213844386651872
1528	Linear_Regression_RUN_4:	0.2777893300036308
1529	RandomForest_MaxTrees100_RUN_10:	0.2635698464291347
1530	SVM_LINEAR_RUN_3:	0.24646410613771297
1531	RandomForest_MaxTrees100_RUN_1:	0.24428334759565662
1532	KNN_Neighbor7_RUN_4:	0.23781640386473635
1533	Lasso_Regression_RUN_10:	0.22799689675366464
1534	DescTree_NoMaxDepth_RUN_4:	0.22087777730933011
1535	KNN_Neighbor9_RUN_9:	0.20432769165712628
1536	KNN_Neighbor9_RUN_3:	0.18890059559119898
1537	KNN_Neighbor9_RUN_6:	0.17932317141933507
1538	Linear_Regression_RUN_3:	0.16218389245941034

1539	RandomForest_MaxTrees100_RUN_8:	0.15970713745485443
1540	DescTree_MaxDepth100_RUN_8:	0.15098016801287006
1541	DescTree_MaxDepth500_RUN_7:	0.14988814317673382
1542	Linear_Regression_RUN_1:	0.14367540328785544
1543	KNN_Neighbor3_RUN_5:	0.13296311116075477
1544	RandomForest_MaxTrees150_RUN_7:	0.12104432127469278
1545	KNN_Neighbor5_RUN_10:	0.11640736589271417
1546	RandomForest_MaxTrees100_RUN_7:	0.11621324609411321
1547	RandomForest_MaxTrees100_RUN_3:	0.11501215052958569
1548	KNN_Neighbor7_RUN_10:	0.10988224938431823
1549	DescTree_NoMaxDepth_RUN_7:	0.08141830529890226
1550	DescTree_NoMaxDepth_RUN_6:	0.08119351056990509
1551	DescTree_NoMaxDepth_RUN_8:	0.07529663617870708
1552	DescTree_MaxDepth1000_RUN_3:	0.0704441917057953
1553	KNN_Neighbor5_RUN_8:	0.062131646587068046
1554	SVM_POLY_RUN_10:	0.0433318408982557
1555	SVM_LINEAR_RUN_9:	0.04070935119792851
1556	DescTree_MaxDepth100_RUN_7:	0.0272026688907423
1557	SVM_LINEAR_RUN_6:	0.02551421933915654
1558	DescTree_MaxDepth1000_RUN_10:	0.02209056817823718
1559	KNN_Neighbor7_RUN_9:	0.020008900238310146
1560	SVM_LINEAR_RUN_4:	0.012130959935977681
1561	KNN_Neighbor5_RUN_7:	0.011210572984841405
1562	DescTree_MaxDepth500_RUN_1:	0.008825000000000194
1563	Lasso_Regression_RUN_9:	0.005263100948053934
1564	KNN_Neighbor3_RUN_3:	0.003971920182566091
1565	KNN_Neighbor5_RUN_6:	0.002430133657351119
1566	KNN_Neighbor5_RUN_2:	-0.006238399627820357
1567	SVM_RBF_RUN_3:	-0.0064166765520332625
1568	SVM_RBF_RUN_4:	-0.007360216425469579
1569	SVM_SIGMOID_RUN_6:	-0.020267154199276494
1570	SVM_RBF_RUN_10:	-0.03255991598610741
1571	RandomForest_MaxTrees50_RUN_1:	-0.03256915275111383
1572	SVM_POLY_RUN_5:	-0.05057281381247547
1573	KNN_Neighbor7_RUN_5:	-0.058115208843957156
1574	DescTree_MaxDepth1000_RUN_4:	-0.06682604735883424
1575	KNN_Neighbor1_RUN_1:	-0.07375346260387805
1576	SVM_POLY_RUN_1:	-0.07867736527832281
1577	Linear_Regression_RUN_10:	-0.08899681790591685
1578	KNN_Neighbor9_RUN_1:	-0.0977401833215985
1579	SVM_RBF_RUN_7:	-0.10253762807298172

```
1580 KNN_Neighbor9_RUN_8: -0.10395249919761373
1581 KNN_Neighbor9_RUN_7: -0.11168343600891673
1582 Linear_Regression_RUN_8: -0.1163343661003775
1583 SVM_SIGMOID_RUN_5: -0.12150832652837118
1584 SVM_POLY_RUN_7: -0.12721188118954152
1585 RandomForest_MaxTrees50_RUN_9: -0.12838877125230308
1586 SVM_SIGMOID_RUN_4: -0.13816183015017147
1587 KNN_Neighbor1_RUN_6: -0.14930848415255005
1588 SVM_RBF_RUN_1: -0.15620408541105935
1589 KNN_Neighbor1_RUN_8: -0.16108389080999475
1590 KNN_Neighbor3_RUN_10: -0.1615296467762002
1591 Lasso_Regression_RUN_1: -0.16223067082967013
1592 SVM_RBF_RUN_6: -0.17437450099981455
1593 RandomForest_MaxTrees100_RUN_6: -0.
17451251449899519
1594 DescTree_MaxDepth500_RUN_5: -0.1784833924103142
1595 Lasso_Regression_RUN_7: -0.1886259159828274
1596 SVM_POLY_RUN_4: -0.19319265248373152
1597 DescTree_MaxDepth100_RUN_2: -0.19502959842141743
1598 KNN_Neighbor3_RUN_2: -0.1986488662402348
1599 SVM_SIGMOID_RUN_9: -0.20397269880620295
1600 DescTree_MaxDepth1000_RUN_8: -0.21099399436205424
1601 SVM_POLY_RUN_9: -0.21618465337321724
1602 SVM_POLY_RUN_6: -0.2219502790070822
1603 SVM_SIGMOID_RUN_2: -0.25809583160424077
1604 DescTree_NoMaxDepth_RUN_5: -0.2650776289004344
1605 KNN_Neighbor5_RUN_1: -0.26820389148072366
1606 DescTree_NoMaxDepth_RUN_9: -0.27699370302660986
1607 SVM_SIGMOID_RUN_7: -0.3034175944226081
1608 KNN_Neighbor1_RUN_5: -0.3100335420683473
1609 SVM_SIGMOID_RUN_8: -0.32935256872266794
1610 KNN_Neighbor9_RUN_4: -0.33130469340922786
1611 SVM_RBF_RUN_9: -0.3487100144067481
1612 DescTree_MaxDepth1000_RUN_1: -0.35557727927557137
1613 KNN_Neighbor5_RUN_9: -0.38770069781421235
1614 KNN_Neighbor9_RUN_5: -0.39174483596410825
1615 DescTree_MaxDepth1000_RUN_2: -0.3943607790616497
1616 SVM_RBF_RUN_8: -0.39701056652862343
1617 RandomForest_MaxTrees150_RUN_8: -0.3999170602709796
1618 KNN_Neighbor5_RUN_5: -0.4144442797750443
1619 SVM_SIGMOID_RUN_3: -0.44896518861240353
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1620	SVM_RBF_RUN_5:	-0.47415277219721674
1621	KNN_Neighbor7_RUN_1:	-0.49219089881759737
1622	DescTree_MaxDepth1000_RUN_5:	-0.5669556519661101
1623	KNN_Neighbor3_RUN_8:	-0.5757539173987605
1624	KNN_Neighbor7_RUN_2:	-0.6381731993850632
1625	KNN_Neighbor9_RUN_2:	-0.6621268863639047
1626	SVM_RBF_RUN_2:	-0.7299328254896609
1627	SVM_LINEAR_RUN_1:	-0.7331077916786948
1628	RandomForest_MaxTrees50_RUN_5:	-0.848469586374696
1629	KNN_Neighbor3_RUN_6:	-0.9330762161739403
1630	SVM_SIGMOID_RUN_1:	-0.9460112926609907
1631	DescTree_MaxDepth500_RUN_2:	-0.9592364930443222
1632	SVM_SIGMOID_RUN_10:	-0.9672134151366325
1633	DescTree_MaxDepth500_RUN_6:	-1.0118457520864386
1634	KNN_Neighbor3_RUN_9:	-1.0121262229571446
1635	DescTree_MaxDepth500_RUN_9:	-1.0973405664718925
1636	KNN_Neighbor3_RUN_1:	-1.1006548784298218
1637	DescTree_MaxDepth500_RUN_8:	-1.1144586166439105
1638	KNN_Neighbor1_RUN_7:	-1.128591166558751
1639	SVM_LINEAR_RUN_5:	-1.132625648752632
1640	KNN_Neighbor7_RUN_8:	-1.1437698096812663
1641	DescTree_MaxDepth100_RUN_1:	-1.1646125199503459
1642	RandomForest_MaxTrees50_RUN_3:	-1.1734985863390146
1643	DescTree_NoMaxDepth_RUN_1:	-1.1806793143314378
1644	DescTree_MaxDepth100_RUN_4:	-1.2867640286149973
1645	KNN_Neighbor1_RUN_10:	-1.3137115252846998
1646	DescTree_MaxDepth1000_RUN_7:	-1.3219696969696968
1647	RandomForest_MaxTrees50_RUN_8:	-1.32555789800834
1648	SVM_POLY_RUN_2:	-1.4009471348052918
1649	KNN_Neighbor1_RUN_3:	-1.4100021556369908
1650	DescTree_NoMaxDepth_RUN_3:	-1.5459887298400155
1651	DescTree_MaxDepth100_RUN_9:	-1.560142609868938
1652	SVM_POLY_RUN_8:	-1.7974199886929334
1653	DescTree_MaxDepth100_RUN_3:	-1.869867512782001
1654	DescTree_MaxDepth100_RUN_10:	-1.9002363413666394
1655	RandomForest_MaxTrees50_RUN_4:	-2.2131234048029413
1656	DescTree_MaxDepth500_RUN_10:	-2.3720816166372374
1657	DescTree_NoMaxDepth_RUN_10:	-3.9218574514038878
1658	SVM_LINEAR_RUN_2:	-4.643165640904053
1659	KNN_Neighbor1_RUN_4:	-4.669814884775217
1660	DescTree_MaxDepth1000_RUN_9:	-4.958378970427163

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1661 SVM_LINEAR_RUN_10: -5.162226466380904
1662 SVM_LINEAR_RUN_7: -5.930896565035828
1663 KNN_Neighbor9_RUN_10: -7.714947129071433
1664 KNN_Neighbor7_RUN_6: -9.73359243697479
1665 SVM_POLY_RUN_3: -37.45300747977982
1666
1667 AVG R^2 SCORES GREATEST TO LOWEST:
1668 RandomForest_MaxTrees150: 0.33528911545973
1669 RandomForest_MaxTrees100: 0.3195487712471317
1670 Lasso_Regression: 0.3107884854754278
1671 Linear_Regression: 0.29594599281777423
1672 KNN_Neighbor5: -0.020391018651963834
1673 SVM_RBF: -0.24292592020697149
1674 KNN_Neighbor3: -0.2893635191071303
1675 RandomForest_MaxTrees50: -0.35950903521991595
1676 SVM_SIGMOID: -0.3736965900843566
1677 DescTree_MaxDepth500: -0.5523795198146064
1678 DescTree_NoMaxDepth: -0.6327817481823057
1679 DescTree_MaxDepth100: -0.63856138884881
1680 DescTree_MaxDepth1000: -0.6900943391736131
1681 KNN_Neighbor1: -0.8253885613620568
1682 KNN_Neighbor9: -0.8840948204669143
1683 KNN_Neighbor7: -1.101118551532099
1684 SVM_LINEAR: -1.6702960761601715
1685 SVM_POLY: -4.149583240752415
1686
1687 Finished at 834.8699249 seconds
1688
1689 Process finished with exit code 0
1690
```