

```
1 C:\Users\chris\anaconda3\envs\CreatePokeAI\python.exe
  C:/Users/chris/IdeaProjects/PokemonGame2/PokemonGame
  /src/CreateNewPokeAI/Models/ModelTesting/
  RegressionExpYieldTests.py
2 81
3 (81, 62502)
4 (81,)
5 Data Loaded at 1.5575005999999998 seconds
6 Creating Models
7 Pipeline Made at 0.0006357999999999642 seconds
8
9 Linear_Regression
10 Creating Data for Linear_Regression_RUN_1
11 Model Made at 0.2160196000000001 seconds
12 Finding Best Fits and Testing Model
13 Created Estimates at 0.002678899999998175 seconds
14 R Squared SCORE:
15 0.8245134600916995
16 Run Completed at 0.21903400000000017 seconds.
17
18 Creating Data for Linear_Regression_RUN_2
19 Model Made at 0.1402142999999998 seconds
20 Finding Best Fits and Testing Model
21 Created Estimates at 0.00124510000000221 seconds
22 R Squared SCORE:
23 0.47036174829095045
24 Run Completed at 0.14181560000000015 seconds.
25
26 Creating Data for Linear_Regression_RUN_3
27 Model Made at 0.1503139 seconds
28 Finding Best Fits and Testing Model
29 Created Estimates at 0.000922999999997851 seconds
30 R Squared SCORE:
31 0.7814771973484975
32 Run Completed at 0.15150479999999966 seconds.
33
34 Creating Data for Linear_Regression_RUN_4
35 Model Made at 0.14397539999999998 seconds
36 Finding Best Fits and Testing Model
37 Created Estimates at 0.0011266000000000886 seconds
38 R Squared SCORE:
```

```
39 0.436229752889309
40 Run Completed at 0.14545110000000028 seconds.
41
42 Creating Data for Linear_Regression_RUN_5
43 Model Made at 0.1476269999999995 seconds
44 Finding Best Fits and Testing Model
45 Created Estimates at 0.0011077000000003778 seconds
46 R Squared SCORE:
47 0.7704397844015373
48 Run Completed at 0.1490775999999996 seconds.
49
50 Creating Data for Linear_Regression_RUN_6
51 Model Made at 0.1379169999999985 seconds
52 Finding Best Fits and Testing Model
53 Created Estimates at 0.001019999999995768 seconds
54 R Squared SCORE:
55 0.7874935021435572
56 Run Completed at 0.1392607999999974 seconds.
57
58 Creating Data for Linear_Regression_RUN_7
59 Model Made at 0.1387119999999995 seconds
60 Finding Best Fits and Testing Model
61 Created Estimates at 0.00107979999999409 seconds
62 R Squared SCORE:
63 0.23323780301586616
64 Run Completed at 0.14017120000000016 seconds.
65
66 Creating Data for Linear_Regression_RUN_8
67 Model Made at 0.1264231999999962 seconds
68 Finding Best Fits and Testing Model
69 Created Estimates at 0.000950800000000294 seconds
70 R Squared SCORE:
71 0.716396626746992
72 Run Completed at 0.1276909999999955 seconds.
73
74 Creating Data for Linear_Regression_RUN_9
75 Model Made at 0.12479260000000014 seconds
76 Finding Best Fits and Testing Model
77 Created Estimates at 0.001094000000001504 seconds
78 R Squared SCORE:
79 0.6391540388850312
```

```
80 Run Completed at 0.1261542999999996 seconds.  
81  
82 Creating Data for Linear_Regression_RUN_10  
83 Model Made at 0.13767309999999977 seconds  
84 Finding Best Fits and Testing Model  
85 Created Estimates at 0.0011998999999995874 seconds  
86 R Squared SCORE:  
87 0.4572797626822339  
88 Run Completed at 0.13929209999999959 seconds.  
89  
90 Linear_Regression all runs completed at 1.  
480248299999995 seconds.  
91 Lasso_Regression  
92 Creating Data for Lasso_Regression_RUN_1  
93 Model Made at 1.027109399999996 seconds  
94 Finding Best Fits and Testing Model  
95 Created Estimates at 0.0013086000000006592 seconds  
96 R Squared SCORE:  
97 0.6247298752853565  
98 Run Completed at 1.0288461 seconds.  
99  
100 Creating Data for Lasso_Regression_RUN_2  
101 Model Made at 0.531879 seconds  
102 Finding Best Fits and Testing Model  
103 Created Estimates at 0.0014499000000007811 seconds  
104 R Squared SCORE:  
105 0.421920937311161  
106 Run Completed at 0.5336996000000003 seconds.  
107  
108 Creating Data for Lasso_Regression_RUN_3  
109 Model Made at 0.918088799999996 seconds  
110 Finding Best Fits and Testing Model  
111 Created Estimates at 0.000979199999997358 seconds  
112 R Squared SCORE:  
113 0.8507978255696932  
114 Run Completed at 0.919379499999998 seconds.  
115  
116 Creating Data for Lasso_Regression_RUN_4  
117 Model Made at 0.748962599999996 seconds  
118 Finding Best Fits and Testing Model  
119 Created Estimates at 0.0010820000000002494 seconds
```

```
120 R Squared SCORE:  
121 0.8159546760995372  
122 Run Completed at 0.7504146999999994 seconds.  
123  
124 Creating Data for Lasso_Regression_RUN_5  
125 Model Made at 0.5791269999999997 seconds  
126 Finding Best Fits and Testing Model  
127 Created Estimates at 0.0009956000000013177 seconds  
128 R Squared SCORE:  
129 0.18558878124641554  
130 Run Completed at 0.5804591000000006 seconds.  
131  
132 Creating Data for Lasso_Regression_RUN_6  
133 Model Made at 0.7210555000000003 seconds  
134 Finding Best Fits and Testing Model  
135 Created Estimates at 0.001015199999994388 seconds  
136 R Squared SCORE:  
137 0.7147217224939111  
138 Run Completed at 0.7223971000000002 seconds.  
139  
140 Creating Data for Lasso_Regression_RUN_7  
141 Model Made at 0.6929642000000005 seconds  
142 Finding Best Fits and Testing Model  
143 Created Estimates at 0.000894399999999619 seconds  
144 R Squared SCORE:  
145 0.9028608430011488  
146 Run Completed at 0.6941506999999998 seconds.  
147  
148 Creating Data for Lasso_Regression_RUN_8  
149 Model Made at 0.8859405000000002 seconds  
150 Finding Best Fits and Testing Model  
151 Created Estimates at 0.0014777000000005813 seconds  
152 R Squared SCORE:  
153 0.8912389496576765  
154 Run Completed at 0.8876627999999993 seconds.  
155  
156 Creating Data for Lasso_Regression_RUN_9  
157 Model Made at 0.6356774999999999 seconds  
158 Finding Best Fits and Testing Model  
159 Created Estimates at 0.0009425000000007344 seconds  
160 R Squared SCORE:
```

```
161 0.7516711568387924
162 Run Completed at 0.6369507999999993 seconds.
163
164 Creating Data for Lasso_Regression_RUN_10
165 Model Made at 0.4324173000000009 seconds
166 Finding Best Fits and Testing Model
167 Created Estimates at 0.0010110999999994874 seconds
168 R Squared SCORE:
169 0.44587100300916327
170 Run Completed at 0.43383470000000024 seconds.
171
172 Lasso_Regression all runs completed at 7.1883919
seconds.
173 SVM_RBF
174 Creating Data for SVM_RBF_RUN_1
175 Model Made at 0.17457620000000063 seconds
176 Finding Best Fits and Testing Model
177 Created Estimates at 0.03220499999999937 seconds
178 R Squared SCORE:
179 -0.01624283272723659
180 Run Completed at 0.2072735000000122 seconds.
181
182 Creating Data for SVM_RBF_RUN_2
183 Model Made at 0.1855601 seconds
184 Finding Best Fits and Testing Model
185 Created Estimates at 0.03320849999998864 seconds
186 R Squared SCORE:
187 0.005369896678296127
188 Run Completed at 0.2192898999999997 seconds.
189
190 Creating Data for SVM_RBF_RUN_3
191 Model Made at 0.19007410000000036 seconds
192 Finding Best Fits and Testing Model
193 Created Estimates at 0.032766900000000376 seconds
194 R Squared SCORE:
195 0.027015409343123076
196 Run Completed at 0.22318740000000048 seconds.
197
198 Creating Data for SVM_RBF_RUN_4
199 Model Made at 0.18089439999999968 seconds
200 Finding Best Fits and Testing Model
```

```
201 Created Estimates at 0.03140500000000124 seconds
202 R Squared SCORE:
203 -0.8329801987080527
204 Run Completed at 0.2128420000000002 seconds.
205
206 Creating Data for SVM_RBF_RUN_5
207 Model Made at 0.2170225999999995 seconds
208 Finding Best Fits and Testing Model
209 Created Estimates at 0.036044199999999194 seconds
210 R Squared SCORE:
211 0.004164706513924088
212 Run Completed at 0.25352069999999927 seconds.
213
214 Creating Data for SVM_RBF_RUN_6
215 Model Made at 0.2123357999999996 seconds
216 Finding Best Fits and Testing Model
217 Created Estimates at 0.03281190000000045 seconds
218 R Squared SCORE:
219 -0.48038890394737566
220 Run Completed at 0.24566360000000032 seconds.
221
222 Creating Data for SVM_RBF_RUN_7
223 Model Made at 0.2018560999999876 seconds
224 Finding Best Fits and Testing Model
225 Created Estimates at 0.03291810000001616 seconds
226 R Squared SCORE:
227 -0.017298194719000737
228 Run Completed at 0.2351744 seconds.
229
230 Creating Data for SVM_RBF_RUN_8
231 Model Made at 0.18258600000000058 seconds
232 Finding Best Fits and Testing Model
233 Created Estimates at 0.03374759999999988 seconds
234 R Squared SCORE:
235 -0.350823476697391
236 Run Completed at 0.2167683000000002 seconds.
237
238 Creating Data for SVM_RBF_RUN_9
239 Model Made at 0.2113580000000006 seconds
240 Finding Best Fits and Testing Model
241 Created Estimates at 0.038489800000000685 seconds
```

```
242 R Squared SCORE:  
243 0.02823625199547697  
244 Run Completed at 0.25038420000000094 seconds.  
245  
246 Creating Data for SVM_RBF_RUN_10  
247 Model Made at 0.20720030000000023 seconds  
248 Finding Best Fits and Testing Model  
249 Created Estimates at 0.037441299999999345 seconds  
250 R Squared SCORE:  
251 -0.1315205589747519  
252 Run Completed at 0.24512919999999916 seconds.  
253  
254 SVM_RBF all runs completed at 2.3098963 seconds.  
255 SVM_LINEAR  
256 Creating Data for SVM_LINEAR_RUN_1  
257 Model Made at 0.198097299999988 seconds  
258 Finding Best Fits and Testing Model  
259 Created Estimates at 0.01435950000000119 seconds  
260 R Squared SCORE:  
261 0.7958881552579742  
262 Run Completed at 0.2129792999999887 seconds.  
263  
264 Creating Data for SVM_LINEAR_RUN_2  
265 Model Made at 0.18617470000000047 seconds  
266 Finding Best Fits and Testing Model  
267 Created Estimates at 0.01293519999999937 seconds  
268 R Squared SCORE:  
269 -0.986850512397357  
270 Run Completed at 0.1996074999999905 seconds.  
271  
272 Creating Data for SVM_LINEAR_RUN_3  
273 Model Made at 0.19572300000000098 seconds  
274 Finding Best Fits and Testing Model  
275 Created Estimates at 0.013503799999998733 seconds  
276 R Squared SCORE:  
277 -2.243827857613552  
278 Run Completed at 0.20966740000000073 seconds.  
279  
280 Creating Data for SVM_LINEAR_RUN_4  
281 Model Made at 0.1987000999999994 seconds  
282 Finding Best Fits and Testing Model
```

```
283 Created Estimates at 0.01224419999999594 seconds
284 R Squared SCORE:
285 -3.647803808931652
286 Run Completed at 0.2113800999999952 seconds.
287
288 Creating Data for SVM_LINEAR_RUN_5
289 Model Made at 0.196148699999984 seconds
290 Finding Best Fits and Testing Model
291 Created Estimates at 0.013269500000016 seconds
292 R Squared SCORE:
293 0.3817441750886019
294 Run Completed at 0.2097766999999904 seconds.
295
296 Creating Data for SVM_LINEAR_RUN_6
297 Model Made at 0.1894559000000045 seconds
298 Finding Best Fits and Testing Model
299 Created Estimates at 0.01235929999999962 seconds
300 R Squared SCORE:
301 -2.3838780962772326
302 Run Completed at 0.2022484000000022 seconds.
303
304 Creating Data for SVM_LINEAR_RUN_7
305 Model Made at 0.1894545999999947 seconds
306 Finding Best Fits and Testing Model
307 Created Estimates at 0.0121535000000015 seconds
308 R Squared SCORE:
309 -5.306492879627452
310 Run Completed at 0.2020784999999894 seconds.
311
312 Creating Data for SVM_LINEAR_RUN_8
313 Model Made at 0.1976648000000008 seconds
314 Finding Best Fits and Testing Model
315 Created Estimates at 0.0127607000000118 seconds
316 R Squared SCORE:
317 -10.444672166297703
318 Run Completed at 0.2109732000000153 seconds.
319
320 Creating Data for SVM_LINEAR_RUN_9
321 Model Made at 0.1940947000000084 seconds
322 Finding Best Fits and Testing Model
323 Created Estimates at 0.0132200000000454 seconds
```

```
324 R Squared SCORE:  
325 0.3056150865328672  
326 Run Completed at 0.20776220000000123 seconds.  
327  
328 Creating Data for SVM_LINEAR_RUN_10  
329 Model Made at 0.20434789999999836 seconds  
330 Finding Best Fits and Testing Model  
331 Created Estimates at 0.01624569999999892 seconds  
332 R Squared SCORE:  
333 0.2467918719982526  
334 Run Completed at 0.22104849999999843 seconds.  
335  
336 SVM_LINEAR all runs completed at 2.088199299999994  
seconds.  
337 SVM_POLY  
338 Creating Data for SVM_POLY_RUN_1  
339 Model Made at 0.1902416999999785 seconds  
340 Finding Best Fits and Testing Model  
341 Created Estimates at 0.01431900000000415 seconds  
342 R Squared SCORE:  
343 -0.005707696894912129  
344 Run Completed at 0.2051054999999984 seconds.  
345  
346 Creating Data for SVM_POLY_RUN_2  
347 Model Made at 0.19757540000000162 seconds  
348 Finding Best Fits and Testing Model  
349 Created Estimates at 0.014154099999998948 seconds  
350 R Squared SCORE:  
351 -0.005836174017267437  
352 Run Completed at 0.2122148000000017 seconds.  
353  
354 Creating Data for SVM_POLY_RUN_3  
355 Model Made at 0.1981180000000009 seconds  
356 Finding Best Fits and Testing Model  
357 Created Estimates at 0.01375210000001377 seconds  
358 R Squared SCORE:  
359 -0.00372775378812773  
360 Run Completed at 0.21232320000000016 seconds.  
361  
362 Creating Data for SVM_POLY_RUN_4  
363 Model Made at 0.2057050000000018 seconds
```

```
364 Finding Best Fits and Testing Model
365 Created Estimates at 0.0136029999999981 seconds
366 R Squared SCORE:
367 0.035886909469568073
368 Run Completed at 0.21976360000000028 seconds.
369
370 Creating Data for SVM_POLY_RUN_5
371 Model Made at 0.2084992000000021 seconds
372 Finding Best Fits and Testing Model
373 Created Estimates at 0.01297159999996641 seconds
374 R Squared SCORE:
375 0.16624222785187626
376 Run Completed at 0.2219480999999876 seconds.
377
378 Creating Data for SVM_POLY_RUN_6
379 Model Made at 0.21270480000000092 seconds
380 Finding Best Fits and Testing Model
381 Created Estimates at 0.015000300000000522 seconds
382 R Squared SCORE:
383 -7.320586078452761
384 Run Completed at 0.2281600000000258 seconds.
385
386 Creating Data for SVM_POLY_RUN_7
387 Model Made at 0.18777100000000146 seconds
388 Finding Best Fits and Testing Model
389 Created Estimates at 0.012961600000000573 seconds
390 R Squared SCORE:
391 0.06333388920090144
392 Run Completed at 0.20131620000000083 seconds.
393
394 Creating Data for SVM_POLY_RUN_8
395 Model Made at 0.203322799999987 seconds
396 Finding Best Fits and Testing Model
397 Created Estimates at 0.01312680000001992 seconds
398 R Squared SCORE:
399 -0.2483164316610853
400 Run Completed at 0.21693110000000004 seconds.
401
402 Creating Data for SVM_POLY_RUN_9
403 Model Made at 0.20068089999999827 seconds
404 Finding Best Fits and Testing Model
```

```
405 Created Estimates at 0.01293859999998246 seconds
406 R Squared SCORE:
407 -0.11090432923472715
408 Run Completed at 0.2139765999999874 seconds.
409
410 Creating Data for SVM_POLY_RUN_10
411 Model Made at 0.19697090000000017 seconds
412 Finding Best Fits and Testing Model
413 Created Estimates at 0.01344599999998293 seconds
414 R Squared SCORE:
415 -0.016955316481209293
416 Run Completed at 0.21082149999998 seconds.
417
418 SVM_POLY all runs completed at 2.143242699999983
seconds.
419 SVM_SIGMOID
420 Creating Data for SVM_SIGMOID_RUN_1
421 Model Made at 0.19950700000000055 seconds
422 Finding Best Fits and Testing Model
423 Created Estimates at 0.01584270000000032 seconds
424 R Squared SCORE:
425 0.013603301060817197
426 Run Completed at 0.21593060000000008 seconds.
427
428 Creating Data for SVM_SIGMOID_RUN_2
429 Model Made at 0.20088510000000007 seconds
430 Finding Best Fits and Testing Model
431 Created Estimates at 0.0123339999999273 seconds
432 R Squared SCORE:
433 -0.09191504481781343
434 Run Completed at 0.213644699999997 seconds.
435
436 Creating Data for SVM_SIGMOID_RUN_3
437 Model Made at 0.21081590000000006 seconds
438 Finding Best Fits and Testing Model
439 Created Estimates at 0.01699239999999463 seconds
440 R Squared SCORE:
441 -1.0383687837582638
442 Run Completed at 0.2283520999999861 seconds.
443
444 Creating Data for SVM_SIGMOID_RUN_4
```

```
445 Model Made at 0.1922584000000005 seconds
446 Finding Best Fits and Testing Model
447 Created Estimates at 0.0148641000000049 seconds
448 R Squared SCORE:
449 -0.0007055224971304064
450 Run Completed at 0.2075659000000023 seconds.
451
452 Creating Data for SVM_SIGMOID_RUN_5
453 Model Made at 0.20105459999999908 seconds
454 Finding Best Fits and Testing Model
455 Created Estimates at 0.013796100000000422 seconds
456 R Squared SCORE:
457 -0.036297138284266284
458 Run Completed at 0.21530389999999855 seconds.
459
460 Creating Data for SVM_SIGMOID_RUN_6
461 Model Made at 0.1905953000000018 seconds
462 Finding Best Fits and Testing Model
463 Created Estimates at 0.01336179999998425 seconds
464 R Squared SCORE:
465 -0.50184844440695
466 Run Completed at 0.2043871000000017 seconds.
467
468 Creating Data for SVM_SIGMOID_RUN_7
469 Model Made at 0.1997914999999999 seconds
470 Finding Best Fits and Testing Model
471 Created Estimates at 0.01294049999999133 seconds
472 R Squared SCORE:
473 0.03372777162616747
474 Run Completed at 0.21329800000000176 seconds.
475
476 Creating Data for SVM_SIGMOID_RUN_8
477 Model Made at 0.1829143000000002 seconds
478 Finding Best Fits and Testing Model
479 Created Estimates at 0.01352999999999376 seconds
480 R Squared SCORE:
481 -0.11550614306364615
482 Run Completed at 0.1970437999999944 seconds.
483
484 Creating Data for SVM_SIGMOID_RUN_9
485 Model Made at 0.20087020000000066 seconds
```

```
486 Finding Best Fits and Testing Model
487 Created Estimates at 0.01429969999998694 seconds
488 R Squared SCORE:
489 -0.14040281079989492
490 Run Completed at 0.2156219999999976 seconds.
491
492 Creating Data for SVM_SIGMOID_RUN_10
493 Model Made at 0.2041893999999708 seconds
494 Finding Best Fits and Testing Model
495 Created Estimates at 0.013940800000000309 seconds
496 R Squared SCORE:
497 -0.03587719270228318
498 Run Completed at 0.218494899999996 seconds.
499
500 SVM_SIGMOID all runs completed at 2.130281499999999
seconds.
501 KNN_Neighbor1
502 Creating Data for KNN_Neighbor1_RUN_1
503 Model Made at 0.07744930000000139 seconds
504 Finding Best Fits and Testing Model
505 Created Estimates at 0.02327559999998065 seconds
506 R Squared SCORE:
507 -1.3358206092227425
508 Run Completed at 0.1012097999999946 seconds.
509
510 Creating Data for KNN_Neighbor1_RUN_2
511 Model Made at 0.0903931 seconds
512 Finding Best Fits and Testing Model
513 Created Estimates at 0.01485729999999185 seconds
514 R Squared SCORE:
515 0.8350732067497884
516 Run Completed at 0.10563600000000051 seconds.
517
518 Creating Data for KNN_Neighbor1_RUN_3
519 Model Made at 0.08208480000000051 seconds
520 Finding Best Fits and Testing Model
521 Created Estimates at 0.01436570000000259 seconds
522 R Squared SCORE:
523 -2.003354919247874
524 Run Completed at 0.09682160000000195 seconds.
525
```

```
526 Creating Data for KNN_Neighbor1_RUN_4
527 Model Made at 0.0758554000000018 seconds
528 Finding Best Fits and Testing Model
529 Created Estimates at 0.014676600000001372 seconds
530 R Squared SCORE:
531 -0.09628438922136184
532 Run Completed at 0.09081390000000056 seconds.
533
534 Creating Data for KNN_Neighbor1_RUN_5
535 Model Made at 0.07811080000000103 seconds
536 Finding Best Fits and Testing Model
537 Created Estimates at 0.01596969999999942 seconds
538 R Squared SCORE:
539 -1.1313401352073886
540 Run Completed at 0.09450880000000339 seconds.
541
542 Creating Data for KNN_Neighbor1_RUN_6
543 Model Made at 0.07319069999999783 seconds
544 Finding Best Fits and Testing Model
545 Created Estimates at 0.01409550000000337 seconds
546 R Squared SCORE:
547 -6.325104519211626
548 Run Completed at 0.08764030000000034 seconds.
549
550 Creating Data for KNN_Neighbor1_RUN_7
551 Model Made at 0.08044230000000141 seconds
552 Finding Best Fits and Testing Model
553 Created Estimates at 0.014561400000001612 seconds
554 R Squared SCORE:
555 0.5476020408163265
556 Run Completed at 0.09536580000000328 seconds.
557
558 Creating Data for KNN_Neighbor1_RUN_8
559 Model Made at 0.08315020000000217 seconds
560 Finding Best Fits and Testing Model
561 Created Estimates at 0.018030099999997162 seconds
562 R Squared SCORE:
563 -0.16045414130360447
564 Run Completed at 0.10158099999999948 seconds.
565
566 Creating Data for KNN_Neighbor1_RUN_9
```

```
567 Model Made at 0.0770289999999957 seconds
568 Finding Best Fits and Testing Model
569 Created Estimates at 0.014112500000003081 seconds
570 R Squared SCORE:
571 -0.095715435603978
572 Run Completed at 0.09143450000000186 seconds.
573
574 Creating Data for KNN_Neighbor1_RUN_10
575 Model Made at 0.0779432999999976 seconds
576 Finding Best Fits and Testing Model
577 Created Estimates at 0.014902600000002764 seconds
578 R Squared SCORE:
579 -0.46308835836892115
580 Run Completed at 0.0932028999999787 seconds.
581
582 KNN_Neighbor1 all runs completed at 0.
      9588047000000017 seconds.
583 KNN_Neighbor3
584 Creating Data for KNN_Neighbor3_RUN_1
585 Model Made at 0.0749893999999976 seconds
586 Finding Best Fits and Testing Model
587 Created Estimates at 0.015006400000000752 seconds
588 R Squared SCORE:
589 -0.08496282986294612
590 Run Completed at 0.09043510000000055 seconds.
591
592 Creating Data for KNN_Neighbor3_RUN_2
593 Model Made at 0.08086910000000103 seconds
594 Finding Best Fits and Testing Model
595 Created Estimates at 0.01422689999997045 seconds
596 R Squared SCORE:
597 0.8007030919102076
598 Run Completed at 0.09544460000000043 seconds.
599
600 Creating Data for KNN_Neighbor3_RUN_3
601 Model Made at 0.08115349999999921 seconds
602 Finding Best Fits and Testing Model
603 Created Estimates at 0.014637100000001624 seconds
604 R Squared SCORE:
605 -1.0202802096173236
606 Run Completed at 0.09617640000000094 seconds.
```

```
607
608 Creating Data for KNN_Neighbor3_RUN_4
609 Model Made at 0.07739030000000113 seconds
610 Finding Best Fits and Testing Model
611 Created Estimates at 0.012367400000002249 seconds
612 R Squared SCORE:
613 -0.5699503189581681
614 Run Completed at 0.09012080000000111 seconds.
615
616 Creating Data for KNN_Neighbor3_RUN_5
617 Model Made at 0.07677620000000118 seconds
618 Finding Best Fits and Testing Model
619 Created Estimates at 0.01403309999999891 seconds
620 R Squared SCORE:
621 0.4623156844711933
622 Run Completed at 0.09111409999999864 seconds.
623
624 Creating Data for KNN_Neighbor3_RUN_6
625 Model Made at 0.08481280000000169 seconds
626 Finding Best Fits and Testing Model
627 Created Estimates at 0.014283899999998795 seconds
628 R Squared SCORE:
629 0.19725693960792923
630 Run Completed at 0.0994638999999994 seconds.
631
632 Creating Data for KNN_Neighbor3_RUN_7
633 Model Made at 0.08328429999999898 seconds
634 Finding Best Fits and Testing Model
635 Created Estimates at 0.013470900000001507 seconds
636 R Squared SCORE:
637 -0.09858676589641524
638 Run Completed at 0.09710640000000126 seconds.
639
640 Creating Data for KNN_Neighbor3_RUN_8
641 Model Made at 0.07549189999999939 seconds
642 Finding Best Fits and Testing Model
643 Created Estimates at 0.013097699999999435 seconds
644 R Squared SCORE:
645 -0.18056548157998664
646 Run Completed at 0.08892939999999783 seconds.
647
```

```
648 Creating Data for KNN_Neighbor3_RUN_9
649 Model Made at 0.0784108999999795 seconds
650 Finding Best Fits and Testing Model
651 Created Estimates at 0.01357310000002114 seconds
652 R Squared SCORE:
653 -0.3289534814705659
654 Run Completed at 0.0922689999999816 seconds.
655
656 Creating Data for KNN_Neighbor3_RUN_10
657 Model Made at 0.07850490000000221 seconds
658 Finding Best Fits and Testing Model
659 Created Estimates at 0.01352929999998301 seconds
660 R Squared SCORE:
661 -0.06306753700281553
662 Run Completed at 0.09238800000000325 seconds.
663
664 KNN_Neighbor3 all runs completed at 0.
934034000000005 seconds.
665 KNN_Neighbor5
666 Creating Data for KNN_Neighbor5_RUN_1
667 Model Made at 0.0797384000000001 seconds
668 Finding Best Fits and Testing Model
669 Created Estimates at 0.01474699999999844 seconds
670 R Squared SCORE:
671 -1.3036884601051715
672 Run Completed at 0.0949138999999811 seconds.
673
674 Creating Data for KNN_Neighbor5_RUN_2
675 Model Made at 0.0899359000000004 seconds
676 Finding Best Fits and Testing Model
677 Created Estimates at 0.01623230000002198 seconds
678 R Squared SCORE:
679 -0.6067930611981687
680 Run Completed at 0.10653190000000023 seconds.
681
682 Creating Data for KNN_Neighbor5_RUN_3
683 Model Made at 0.0830521999999736 seconds
684 Finding Best Fits and Testing Model
685 Created Estimates at 0.01489139999999777 seconds
686 R Squared SCORE:
687 -0.1453805924320537
```

```
688 Run Completed at 0.098232999999938 seconds.  
689  
690 Creating Data for KNN_Neighbor5_RUN_4  
691 Model Made at 0.0837280000000069 seconds  
692 Finding Best Fits and Testing Model  
693 Created Estimates at 0.01374360000001521 seconds  
694 R Squared SCORE:  
695 0.25246692752002986  
696 Run Completed at 0.0979070000000285 seconds.  
697  
698 Creating Data for KNN_Neighbor5_RUN_5  
699 Model Made at 0.0854809999999792 seconds  
700 Finding Best Fits and Testing Model  
701 Created Estimates at 0.01676360000000878 seconds  
702 R Squared SCORE:  
703 0.5961509858131468  
704 Run Completed at 0.1027228999999984 seconds.  
705  
706 Creating Data for KNN_Neighbor5_RUN_6  
707 Model Made at 0.1064238000000173 seconds  
708 Finding Best Fits and Testing Model  
709 Created Estimates at 0.0464479000000043 seconds  
710 R Squared SCORE:  
711 0.09401968844199915  
712 Run Completed at 0.1533018000000126 seconds.  
713  
714 Creating Data for KNN_Neighbor5_RUN_7  
715 Model Made at 0.103628000000005 seconds  
716 Finding Best Fits and Testing Model  
717 Created Estimates at 0.0650169999999744 seconds  
718 R Squared SCORE:  
719 -0.41450331446266975  
720 Run Completed at 0.1690919999999913 seconds.  
721  
722 Creating Data for KNN_Neighbor5_RUN_8  
723 Model Made at 0.1213000999999913 seconds  
724 Finding Best Fits and Testing Model  
725 Created Estimates at 0.0210033000000028 seconds  
726 R Squared SCORE:  
727 -0.8004634407555251  
728 Run Completed at 0.1427388000000005 seconds.
```

```
729
730 Creating Data for KNN_Neighbor5_RUN_9
731 Model Made at 0.1100860000000257 seconds
732 Finding Best Fits and Testing Model
733 Created Estimates at 0.02886059999998016 seconds
734 R Squared SCORE:
735 0.5707102192744591
736 Run Completed at 0.139420000000012 seconds.
737
738 Creating Data for KNN_Neighbor5_RUN_10
739 Model Made at 0.1064499000000121 seconds
740 Finding Best Fits and Testing Model
741 Created Estimates at 0.01826339999998597 seconds
742 R Squared SCORE:
743 -0.2220087620325475
744 Run Completed at 0.1252115000000247 seconds.
745
746 KNN_Neighbor5 all runs completed at 1.
    230775999999988 seconds.
747 KNN_Neighbor7
748 Creating Data for KNN_Neighbor7_RUN_1
749 Model Made at 0.1047359000000144 seconds
750 Finding Best Fits and Testing Model
751 Created Estimates at 0.02870520000000985 seconds
752 R Squared SCORE:
753 -0.7410211877086648
754 Run Completed at 0.1338749000000213 seconds.
755
756 Creating Data for KNN_Neighbor7_RUN_2
757 Model Made at 0.09831379999999967 seconds
758 Finding Best Fits and Testing Model
759 Created Estimates at 0.02155839999999978 seconds
760 R Squared SCORE:
761 -0.35784469542468944
762 Run Completed at 0.12071619999999683 seconds.
763
764 Creating Data for KNN_Neighbor7_RUN_3
765 Model Made at 0.09874120000000275 seconds
766 Finding Best Fits and Testing Model
767 Created Estimates at 0.017064899999997607 seconds
768 R Squared SCORE:
```

```
769 -0.46494215547070294
770 Run Completed at 0.11619360000000256 seconds.
771
772 Creating Data for KNN_Neighbor7_RUN_4
773 Model Made at 0.10951590000000166 seconds
774 Finding Best Fits and Testing Model
775 Created Estimates at 0.01665709999999758 seconds
776 R Squared SCORE:
777 -0.4277425328260822
778 Run Completed at 0.12655910000000148 seconds.
779
780 Creating Data for KNN_Neighbor7_RUN_5
781 Model Made at 0.09322320000000062 seconds
782 Finding Best Fits and Testing Model
783 Created Estimates at 0.017374199999999007 seconds
784 R Squared SCORE:
785 -0.2686252366144466
786 Run Completed at 0.1110749999999959 seconds.
787
788 Creating Data for KNN_Neighbor7_RUN_6
789 Model Made at 0.1081783999999999 seconds
790 Finding Best Fits and Testing Model
791 Created Estimates at 0.01961899999999872 seconds
792 R Squared SCORE:
793 0.1465455080218977
794 Run Completed at 0.1283507999999977 seconds.
795
796 Creating Data for KNN_Neighbor7_RUN_7
797 Model Made at 0.10645099999999985 seconds
798 Finding Best Fits and Testing Model
799 Created Estimates at 0.0206653000000000997 seconds
800 R Squared SCORE:
801 -0.13612849320913023
802 Run Completed at 0.12754800000000088 seconds.
803
804 Creating Data for KNN_Neighbor7_RUN_8
805 Model Made at 0.09530020000000005 seconds
806 Finding Best Fits and Testing Model
807 Created Estimates at 0.016374700000000075 seconds
808 R Squared SCORE:
809 -0.09795583420687204
```

```
810 Run Completed at 0.1121270000000098 seconds.  
811  
812 Creating Data for KNN_Neighbor7_RUN_9  
813 Model Made at 0.0926296999999981 seconds  
814 Finding Best Fits and Testing Model  
815 Created Estimates at 0.0180110000000133 seconds  
816 R Squared SCORE:  
817 -0.3419225653392213  
818 Run Completed at 0.11115179999999825 seconds.  
819  
820 Creating Data for KNN_Neighbor7_RUN_10  
821 Model Made at 0.0840750999999974 seconds  
822 Finding Best Fits and Testing Model  
823 Created Estimates at 0.014173199999998332 seconds  
824 R Squared SCORE:  
825 -0.05356743379841333  
826 Run Completed at 0.0986926999999973 seconds.  
827  
828 KNN_Neighbor7 all runs completed at 1.  
1872489000000002 seconds.  
829 KNN_Neighbor9  
830 Creating Data for KNN_Neighbor9_RUN_1  
831 Model Made at 0.0737306999999987 seconds  
832 Finding Best Fits and Testing Model  
833 Created Estimates at 0.0153219 seconds  
834 R Squared SCORE:  
835 -0.6152577061182207  
836 Run Completed at 0.08943899999999871 seconds.  
837  
838 Creating Data for KNN_Neighbor9_RUN_2  
839 Model Made at 0.0786405999999995 seconds  
840 Finding Best Fits and Testing Model  
841 Created Estimates at 0.013160100000000341 seconds  
842 R Squared SCORE:  
843 0.240728382465489  
844 Run Completed at 0.09208690000000175 seconds.  
845  
846 Creating Data for KNN_Neighbor9_RUN_3  
847 Model Made at 0.0788499999999992 seconds  
848 Finding Best Fits and Testing Model  
849 Created Estimates at 0.01462280000000149 seconds
```

```
850 R Squared SCORE:  
851 -0.017348156147640292  
852 Run Completed at 0.09382940000000062 seconds.  
853  
854 Creating Data for KNN_Neighbor9_RUN_4  
855 Model Made at 0.08810470000000237 seconds  
856 Finding Best Fits and Testing Model  
857 Created Estimates at 0.01422739999999335 seconds  
858 R Squared SCORE:  
859 0.05923131978165108  
860 Run Completed at 0.1026908000000013 seconds.  
861  
862 Creating Data for KNN_Neighbor9_RUN_5  
863 Model Made at 0.08380739999999776 seconds  
864 Finding Best Fits and Testing Model  
865 Created Estimates at 0.015622100000001637 seconds  
866 R Squared SCORE:  
867 -0.2480227621729565  
868 Run Completed at 0.0997441999999995 seconds.  
869  
870 Creating Data for KNN_Neighbor9_RUN_6  
871 Model Made at 0.08268419999999921 seconds  
872 Finding Best Fits and Testing Model  
873 Created Estimates at 0.01860410000000101 seconds  
874 R Squared SCORE:  
875 -0.5056435719946419  
876 Run Completed at 0.10178630000000055 seconds.  
877  
878 Creating Data for KNN_Neighbor9_RUN_7  
879 Model Made at 0.09103630000000251 seconds  
880 Finding Best Fits and Testing Model  
881 Created Estimates at 0.0164515999999999 seconds  
882 R Squared SCORE:  
883 0.08870964557991512  
884 Run Completed at 0.10790060000000068 seconds.  
885  
886 Creating Data for KNN_Neighbor9_RUN_8  
887 Model Made at 0.08150260000000031 seconds  
888 Finding Best Fits and Testing Model  
889 Created Estimates at 0.016598500000000627 seconds  
890 R Squared SCORE:
```

```
891 0.270951253601865
892 Run Completed at 0.098542299999983 seconds.
893
894 Creating Data for KNN_Neighbor9_RUN_9
895 Model Made at 0.07156120000000143 seconds
896 Finding Best Fits and Testing Model
897 Created Estimates at 0.013333299999999326 seconds
898 R Squared SCORE:
899 0.036520373326415334
900 Run Completed at 0.0851965999999973 seconds.
901
902 Creating Data for KNN_Neighbor9_RUN_10
903 Model Made at 0.0765898999999832 seconds
904 Finding Best Fits and Testing Model
905 Created Estimates at 0.013822000000001111 seconds
906 R Squared SCORE:
907 -5.497202346129037
908 Run Completed at 0.0907701999999791 seconds.
909
910 KNN_Neighbor9 all runs completed at 0.
9626192000000025 seconds.
911 DescTree_NoMaxDepth
912 Creating Data for DescTree_NoMaxDepth_RUN_1
913 Model Made at 0.7197281000000011 seconds
914 Finding Best Fits and Testing Model
915 Created Estimates at 0.001458899999993746 seconds
916 R Squared SCORE:
917 -0.19520390580126357
918 Run Completed at 0.721663899999994 seconds.
919
920 Creating Data for DescTree_NoMaxDepth_RUN_2
921 Model Made at 0.5261104000000003 seconds
922 Finding Best Fits and Testing Model
923 Created Estimates at 0.00121159999997759 seconds
924 R Squared SCORE:
925 -5.408758906921738
926 Run Completed at 0.5275547999999972 seconds.
927
928 Creating Data for DescTree_NoMaxDepth_RUN_3
929 Model Made at 0.5482934999999998 seconds
930 Finding Best Fits and Testing Model
```

```
931 Created Estimates at 0.001295500000012262 seconds
932 R Squared SCORE:
933 0.49151181624260754
934 Run Completed at 0.5500290000000021 seconds.
935
936 Creating Data for DescTree_NoMaxDepth_RUN_4
937 Model Made at 0.527349399999985 seconds
938 Finding Best Fits and Testing Model
939 Created Estimates at 0.001149800000003117 seconds
940 R Squared SCORE:
941 0.8307407696917585
942 Run Completed at 0.528741499999989 seconds.
943
944 Creating Data for DescTree_NoMaxDepth_RUN_5
945 Model Made at 0.631636099999979 seconds
946 Finding Best Fits and Testing Model
947 Created Estimates at 0.003010899999995945 seconds
948 R Squared SCORE:
949 0.7253235197567338
950 Run Completed at 0.635173399999993 seconds.
951
952 Creating Data for DescTree_NoMaxDepth_RUN_6
953 Model Made at 0.637763799999983 seconds
954 Finding Best Fits and Testing Model
955 Created Estimates at 0.001147100000007336 seconds
956 R Squared SCORE:
957 0.6822903005822798
958 Run Completed at 0.639366899999989 seconds.
959
960 Creating Data for DescTree_NoMaxDepth_RUN_7
961 Model Made at 0.567198399999988 seconds
962 Finding Best Fits and Testing Model
963 Created Estimates at 0.002201899999993127 seconds
964 R Squared SCORE:
965 0.8721247984238262
966 Run Completed at 0.569871700000002 seconds.
967
968 Creating Data for DescTree_NoMaxDepth_RUN_8
969 Model Made at 0.639181499999994 seconds
970 Finding Best Fits and Testing Model
971 Created Estimates at 0.0013359000000008336 seconds
```

```
972 R Squared SCORE:  
973 0.8879713805429647  
974 Run Completed at 0.6409057000000011 seconds.  
975  
976 Creating Data for DescTree_NoMaxDepth_RUN_9  
977 Model Made at 0.6830807999999999 seconds  
978 Finding Best Fits and Testing Model  
979 Created Estimates at 0.0015012999999974852 seconds  
980 R Squared SCORE:  
981 0.8764640440063043  
982 Run Completed at 0.6848354999999984 seconds.  
983  
984 Creating Data for DescTree_NoMaxDepth_RUN_10  
985 Model Made at 0.6012243999999995 seconds  
986 Finding Best Fits and Testing Model  
987 Created Estimates at 0.0014096000000023423 seconds  
988 R Squared SCORE:  
989 0.7060492647639846  
990 Run Completed at 0.6029029999999977 seconds.  
991  
992 DescTree_NoMaxDepth all runs completed at 6.  
1015717999999985 seconds.  
993 DescTree_MaxDepth100  
994 Creating Data for DescTree_MaxDepth100_RUN_1  
995 Model Made at 0.5715508999999983 seconds  
996 Finding Best Fits and Testing Model  
997 Created Estimates at 0.0016588000000012926 seconds  
998 R Squared SCORE:  
999 0.4981852381193459  
1000 Run Completed at 0.5734893999999997 seconds.  
1001  
1002 Creating Data for DescTree_MaxDepth100_RUN_2  
1003 Model Made at 0.5677509000000001 seconds  
1004 Finding Best Fits and Testing Model  
1005 Created Estimates at 0.0012389999999982138 seconds  
1006 R Squared SCORE:  
1007 -0.7893555679866009  
1008 Run Completed at 0.5692511000000025 seconds.  
1009  
1010 Creating Data for DescTree_MaxDepth100_RUN_3  
1011 Model Made at 0.6005251999999999 seconds
```

```
1012 Finding Best Fits and Testing Model
1013 Created Estimates at 0.0013296999999994341 seconds
1014 R Squared SCORE:
1015 0.9128545174588983
1016 Run Completed at 0.6021240999999975 seconds.
1017
1018 Creating Data for DescTree_MaxDepth100_RUN_4
1019 Model Made at 0.534087900000003 seconds
1020 Finding Best Fits and Testing Model
1021 Created Estimates at 0.0012927000000004796 seconds
1022 R Squared SCORE:
1023 0.24755576805763935
1024 Run Completed at 0.5356342000000041 seconds.
1025
1026 Creating Data for DescTree_MaxDepth100_RUN_5
1027 Model Made at 0.6326551000000009 seconds
1028 Finding Best Fits and Testing Model
1029 Created Estimates at 0.0013426000000009708 seconds
1030 R Squared SCORE:
1031 0.8638978144388634
1032 Run Completed at 0.634275999999998 seconds.
1033
1034 Creating Data for DescTree_MaxDepth100_RUN_6
1035 Model Made at 0.6887006999999983 seconds
1036 Finding Best Fits and Testing Model
1037 Created Estimates at 0.00238459999999182 seconds
1038 R Squared SCORE:
1039 0.8809482838497888
1040 Run Completed at 0.6915321999999975 seconds.
1041
1042 Creating Data for DescTree_MaxDepth100_RUN_7
1043 Model Made at 0.6163187000000008 seconds
1044 Finding Best Fits and Testing Model
1045 Created Estimates at 0.001305399999999679 seconds
1046 R Squared SCORE:
1047 0.4812933807347215
1048 Run Completed at 0.6178846999999976 seconds.
1049
1050 Creating Data for DescTree_MaxDepth100_RUN_8
1051 Model Made at 0.5910424000000063 seconds
1052 Finding Best Fits and Testing Model
```

```
1053 Created Estimates at 0.0013350999999985902 seconds
1054 R Squared SCORE:
1055 0.3214698631561561
1056 Run Completed at 0.592642000000005 seconds.
1057
1058 Creating Data for DescTree_MaxDepth100_RUN_9
1059 Model Made at 0.5200128999999976 seconds
1060 Finding Best Fits and Testing Model
1061 Created Estimates at 0.0011951000000038903 seconds
1062 R Squared SCORE:
1063 0.8223823488735775
1064 Run Completed at 0.5214507999999967 seconds.
1065
1066 Creating Data for DescTree_MaxDepth100_RUN_10
1067 Model Made at 0.5832045000000008 seconds
1068 Finding Best Fits and Testing Model
1069 Created Estimates at 0.002904600000000812 seconds
1070 R Squared SCORE:
1071 0.8707920845993836
1072 Run Completed at 0.5866745999999949 seconds.
1073
1074 DescTree_MaxDepth100 all runs completed at 5.
925498499999996 seconds.
1075 DescTree_MaxDepth500
1076 Creating Data for DescTree_MaxDepth500_RUN_1
1077 Model Made at 0.6214833000000013 seconds
1078 Finding Best Fits and Testing Model
1079 Created Estimates at 0.001442799999995222 seconds
1080 R Squared SCORE:
1081 0.18201443721392252
1082 Run Completed at 0.6232017999999968 seconds.
1083
1084 Creating Data for DescTree_MaxDepth500_RUN_2
1085 Model Made at 0.6456550000000005 seconds
1086 Finding Best Fits and Testing Model
1087 Created Estimates at 0.0019879999999972142 seconds
1088 R Squared SCORE:
1089 -0.8545399789188375
1090 Run Completed at 0.6480211000000011 seconds.
1091
1092 Creating Data for DescTree_MaxDepth500_RUN_3
```

```
1093 Model Made at 0.5955006000000012 seconds
1094 Finding Best Fits and Testing Model
1095 Created Estimates at 0.0020605999999929736 seconds
1096 R Squared SCORE:
1097 0.4478438800741532
1098 Run Completed at 0.5979491999999951 seconds.
1099
1100 Creating Data for DescTree_MaxDepth500_RUN_4
1101 Model Made at 0.608219400000003 seconds
1102 Finding Best Fits and Testing Model
1103 Created Estimates at 0.0015110000000007062 seconds
1104 R Squared SCORE:
1105 0.4357871966470628
1106 Run Completed at 0.6100718 seconds.
1107
1108 Creating Data for DescTree_MaxDepth500_RUN_5
1109 Model Made at 0.6022277999999943 seconds
1110 Finding Best Fits and Testing Model
1111 Created Estimates at 0.0011995000000055711 seconds
1112 R Squared SCORE:
1113 0.7350553734476304
1114 Run Completed at 0.6036754999999943 seconds.
1115
1116 Creating Data for DescTree_MaxDepth500_RUN_6
1117 Model Made at 0.5300471999999985 seconds
1118 Finding Best Fits and Testing Model
1119 Created Estimates at 0.0012430000000023256 seconds
1120 R Squared SCORE:
1121 0.699130172457137
1122 Run Completed at 0.5315373000000037 seconds.
1123
1124 Creating Data for DescTree_MaxDepth500_RUN_7
1125 Model Made at 0.7129558000000031 seconds
1126 Finding Best Fits and Testing Model
1127 Created Estimates at 0.00183630000000079 seconds
1128 R Squared SCORE:
1129 -1.6453508403756163
1130 Run Completed at 0.7151435000000035 seconds.
1131
1132 Creating Data for DescTree_MaxDepth500_RUN_8
1133 Model Made at 0.5178082999999987 seconds
```

```
1134 Finding Best Fits and Testing Model
1135 Created Estimates at 0.001172699999997917 seconds
1136 R Squared SCORE:
1137 0.33036844479147975
1138 Run Completed at 0.5192186999999961 seconds.
1139
1140 Creating Data for DescTree_MaxDepth500_RUN_9
1141 Model Made at 0.6169404999999983 seconds
1142 Finding Best Fits and Testing Model
1143 Created Estimates at 0.001857499999998454 seconds
1144 R Squared SCORE:
1145 0.6740728033240577
1146 Run Completed at 0.6191582000000011 seconds.
1147
1148 Creating Data for DescTree_MaxDepth500_RUN_10
1149 Model Made at 0.6235886999999991 seconds
1150 Finding Best Fits and Testing Model
1151 Created Estimates at 0.003620399999995527 seconds
1152 R Squared SCORE:
1153 0.8919994193517169
1154 Run Completed at 0.627923899999999 seconds.
1155
1156 DescTree_MaxDepth500 all runs completed at 6.
    096512799999999 seconds.
1157 DescTree_MaxDepth1000
1158 Creating Data for DescTree_MaxDepth1000_RUN_1
1159 Model Made at 0.5872184000000047 seconds
1160 Finding Best Fits and Testing Model
1161 Created Estimates at 0.0014900999999980513 seconds
1162 R Squared SCORE:
1163 0.8600961599238137
1164 Run Completed at 0.5889747000000014 seconds.
1165
1166 Creating Data for DescTree_MaxDepth1000_RUN_2
1167 Model Made at 0.5844671999999989 seconds
1168 Finding Best Fits and Testing Model
1169 Created Estimates at 0.0011364000000000374 seconds
1170 R Squared SCORE:
1171 0.6593939686070092
1172 Run Completed at 0.5859926999999985 seconds.
1173
```

```
1174 Creating Data for DescTree_MaxDepth1000_RUN_3
1175 Model Made at 0.5005035000000007 seconds
1176 Finding Best Fits and Testing Model
1177 Created Estimates at 0.0012359000000046194 seconds
1178 R Squared SCORE:
1179 0.4987369985141159
1180 Run Completed at 0.5019753000000051 seconds.
1181
1182 Creating Data for DescTree_MaxDepth1000_RUN_4
1183 Model Made at 0.5259822999999955 seconds
1184 Finding Best Fits and Testing Model
1185 Created Estimates at 0.0015375000000048544 seconds
1186 R Squared SCORE:
1187 -3.4689547677888415
1188 Run Completed at 0.5278703999999976 seconds.
1189
1190 Creating Data for DescTree_MaxDepth1000_RUN_5
1191 Model Made at 0.6050360999999995 seconds
1192 Finding Best Fits and Testing Model
1193 Created Estimates at 0.0017642000000037683 seconds
1194 R Squared SCORE:
1195 0.8885980770441524
1196 Run Completed at 0.6073604999999986 seconds.
1197
1198 Creating Data for DescTree_MaxDepth1000_RUN_6
1199 Model Made at 0.6044929999999998 seconds
1200 Finding Best Fits and Testing Model
1201 Created Estimates at 0.002129899999999907 seconds
1202 R Squared SCORE:
1203 0.9131880499283814
1204 Run Completed at 0.6069198999999941 seconds.
1205
1206 Creating Data for DescTree_MaxDepth1000_RUN_7
1207 Model Made at 0.6087961999999933 seconds
1208 Finding Best Fits and Testing Model
1209 Created Estimates at 0.0016874000000015599 seconds
1210 R Squared SCORE:
1211 0.6398136015684266
1212 Run Completed at 0.6107836999999989 seconds.
1213
1214 Creating Data for DescTree_MaxDepth1000_RUN_8
```

```
1215 Model Made at 0.566102899999971 seconds
1216 Finding Best Fits and Testing Model
1217 Created Estimates at 0.0025271000000017807 seconds
1218 R Squared SCORE:
1219 -0.3939841240343005
1220 Run Completed at 0.5690674999999956 seconds.
1221
1222 Creating Data for DescTree_MaxDepth1000_RUN_9
1223 Model Made at 0.5424690000000041 seconds
1224 Finding Best Fits and Testing Model
1225 Created Estimates at 0.001654099999996106 seconds
1226 R Squared SCORE:
1227 0.9633470171136109
1228 Run Completed at 0.5444448000000008 seconds.
1229
1230 Creating Data for DescTree_MaxDepth1000_RUN_10
1231 Model Made at 0.5126941999999985 seconds
1232 Finding Best Fits and Testing Model
1233 Created Estimates at 0.001117200000003038 seconds
1234 R Squared SCORE:
1235 0.4350289810168182
1236 Run Completed at 0.5141647999999961 seconds.
1237
1238 DescTree_MaxDepth1000 all runs completed at 5.
      658113100000001 seconds.
1239 RandomForest_MaxTrees50
1240 Creating Data for RandomForest_MaxTrees50_RUN_1
1241 Model Made at 14.597506700000004 seconds
1242 Finding Best Fits and Testing Model
1243 Created Estimates at 0.004294500000000312 seconds
1244 R Squared SCORE:
1245 0.8400973454170627
1246 Run Completed at 14.60202910000003 seconds.
1247
1248 Creating Data for RandomForest_MaxTrees50_RUN_2
1249 Model Made at 14.433829799999998 seconds
1250 Finding Best Fits and Testing Model
1251 Created Estimates at 0.00443429999999978 seconds
1252 R Squared SCORE:
1253 0.9025178874669917
1254 Run Completed at 14.438667899999999 seconds.
```

```
1255
1256 Creating Data for RandomForest_MaxTrees50_RUN_3
1257 Model Made at 15.4400737 seconds
1258 Finding Best Fits and Testing Model
1259 Created Estimates at 0.00441620000000853 seconds
1260 R Squared SCORE:
1261 0.39407572249093525
1262 Run Completed at 15.444814900000011 seconds.
1263
1264 Creating Data for RandomForest_MaxTrees50_RUN_4
1265 Model Made at 18.33038169999999 seconds
1266 Finding Best Fits and Testing Model
1267 Created Estimates at 0.005138500000001045 seconds
1268 R Squared SCORE:
1269 0.5843431797187724
1270 Run Completed at 18.33582789999998 seconds.
1271
1272 Creating Data for RandomForest_MaxTrees50_RUN_5
1273 Model Made at 15.586487699999992 seconds
1274 Finding Best Fits and Testing Model
1275 Created Estimates at 0.003896200000014005 seconds
1276 R Squared SCORE:
1277 0.7673342597909728
1278 Run Completed at 15.590612300000004 seconds.
1279
1280 Creating Data for RandomForest_MaxTrees50_RUN_6
1281 Model Made at 14.092432299999984 seconds
1282 Finding Best Fits and Testing Model
1283 Created Estimates at 0.0046879000000217275 seconds
1284 R Squared SCORE:
1285 0.24444062276211465
1286 Run Completed at 14.09737509999994 seconds.
1287
1288 Creating Data for RandomForest_MaxTrees50_RUN_7
1289 Model Made at 16.484197800000004 seconds
1290 Finding Best Fits and Testing Model
1291 Created Estimates at 0.0048069000000054984 seconds
1292 R Squared SCORE:
1293 0.8421571423297027
1294 Run Completed at 16.489495800000014 seconds.
1295
```

```
1296 Creating Data for RandomForest_MaxTrees50_RUN_8
1297 Model Made at 14.973826500000001 seconds
1298 Finding Best Fits and Testing Model
1299 Created Estimates at 0.00400569999999334 seconds
1300 R Squared SCORE:
1301 0.8033085094036282
1302 Run Completed at 14.97817169999999 seconds.
1303
1304 Creating Data for RandomForest_MaxTrees50_RUN_9
1305 Model Made at 15.005109299999987 seconds
1306 Finding Best Fits and Testing Model
1307 Created Estimates at 0.00396219999998948 seconds
1308 R Squared SCORE:
1309 0.9685844225782035
1310 Run Completed at 15.009305999999981 seconds.
1311
1312 Creating Data for RandomForest_MaxTrees50_RUN_10
1313 Model Made at 14.724858100000006 seconds
1314 Finding Best Fits and Testing Model
1315 Created Estimates at 0.004375900000013644 seconds
1316 R Squared SCORE:
1317 0.6418408082732783
1318 Run Completed at 14.7295953 seconds.
1319
1320 RandomForest_MaxTrees50 all runs completed at 153.
    71635279999998 seconds.
1321 RandomForest_MaxTrees100
1322 Creating Data for RandomForest_MaxTrees100_RUN_1
1323 Model Made at 30.8810742 seconds
1324 Finding Best Fits and Testing Model
1325 Created Estimates at 0.006976000000008753 seconds
1326 R Squared SCORE:
1327 0.9187516389169529
1328 Run Completed at 30.888284199999987 seconds.
1329
1330 Creating Data for RandomForest_MaxTrees100_RUN_2
1331 Model Made at 30.98450059999996 seconds
1332 Finding Best Fits and Testing Model
1333 Created Estimates at 0.007128100000045379 seconds
1334 R Squared SCORE:
1335 0.728095594218997
```

```
1336 Run Completed at 30.99192070000001 seconds.  
1337  
1338 Creating Data for RandomForest_MaxTrees100_RUN_3  
1339 Model Made at 30.242871800000046 seconds  
1340 Finding Best Fits and Testing Model  
1341 Created Estimates at 0.006591399999990699 seconds  
1342 R Squared SCORE:  
1343 0.8408089461635119  
1344 Run Completed at 30.250021700000048 seconds.  
1345  
1346 Creating Data for RandomForest_MaxTrees100_RUN_4  
1347 Model Made at 29.629037799999992 seconds  
1348 Finding Best Fits and Testing Model  
1349 Created Estimates at 0.00695610000002489 seconds  
1350 R Squared SCORE:  
1351 0.8712395757053629  
1352 Run Completed at 29.636243500000035 seconds.  
1353  
1354 Creating Data for RandomForest_MaxTrees100_RUN_5  
1355 Model Made at 37.08511980000003 seconds  
1356 Finding Best Fits and Testing Model  
1357 Created Estimates at 0.011194299999999657 seconds  
1358 R Squared SCORE:  
1359 0.6252608249731277  
1360 Run Completed at 37.09669180000003 seconds.  
1361  
1362 Creating Data for RandomForest_MaxTrees100_RUN_6  
1363 Model Made at 53.9118282 seconds  
1364 Finding Best Fits and Testing Model  
1365 Created Estimates at 0.007352999999966414 seconds  
1366 R Squared SCORE:  
1367 0.8657358993194743  
1368 Run Completed at 53.919465 seconds.  
1369  
1370 Creating Data for RandomForest_MaxTrees100_RUN_7  
1371 Model Made at 30.09795870000005 seconds  
1372 Finding Best Fits and Testing Model  
1373 Created Estimates at 0.007989299999962896 seconds  
1374 R Squared SCORE:  
1375 0.4302039516763949  
1376 Run Completed at 30.10630070000002 seconds.
```

```
1377
1378 Creating Data for RandomForest_MaxTrees100_RUN_8
1379 Model Made at 29.09410009999999 seconds
1380 Finding Best Fits and Testing Model
1381 Created Estimates at 0.0070996000000036474 seconds
1382 R Squared SCORE:
1383 0.3211862064231795
1384 Run Completed at 29.101629899999978 seconds.
1385
1386 Creating Data for RandomForest_MaxTrees100_RUN_9
1387 Model Made at 30.136811799999975 seconds
1388 Finding Best Fits and Testing Model
1389 Created Estimates at 0.006964400000015303 seconds
1390 R Squared SCORE:
1391 0.7911881085090124
1392 Run Completed at 30.144043899999986 seconds.
1393
1394 Creating Data for RandomForest_MaxTrees100_RUN_10
1395 Model Made at 27.66478440000003 seconds
1396 Finding Best Fits and Testing Model
1397 Created Estimates at 0.006317299999977877 seconds
1398 R Squared SCORE:
1399 0.7322246388159224
1400 Run Completed at 27.67133990000002 seconds.
1401
1402 RandomForest_MaxTrees100 all runs completed at 329.
     8064409 seconds.
1403 RandomForest_MaxTrees150
1404 Creating Data for RandomForest_MaxTrees150_RUN_1
1405 Model Made at 44.781393000000094 seconds
1406 Finding Best Fits and Testing Model
1407 Created Estimates at 0.010393799999974362 seconds
1408 R Squared SCORE:
1409 0.9202049340989942
1410 Run Completed at 44.79229250000003 seconds.
1411
1412 Creating Data for RandomForest_MaxTrees150_RUN_2
1413 Model Made at 42.251318200000014 seconds
1414 Finding Best Fits and Testing Model
1415 Created Estimates at 0.009516500000017913 seconds
1416 R Squared SCORE:
```

```
1417 0.5792160436446769
1418 Run Completed at 42.261078999999995 seconds.
1419
1420 Creating Data for RandomForest_MaxTrees150_RUN_3
1421 Model Made at 45.9956624999998 seconds
1422 Finding Best Fits and Testing Model
1423 Created Estimates at 0.01026579999995647 seconds
1424 R Squared SCORE:
1425 0.8549527208232037
1426 Run Completed at 46.00622199999998 seconds.
1427
1428 Creating Data for RandomForest_MaxTrees150_RUN_4
1429 Model Made at 47.6117084999996 seconds
1430 Finding Best Fits and Testing Model
1431 Created Estimates at 0.014788599999974394 seconds
1432 R Squared SCORE:
1433 0.8146010174492055
1434 Run Completed at 47.62679689999993 seconds.
1435
1436 Creating Data for RandomForest_MaxTrees150_RUN_5
1437 Model Made at 44.6191616999995 seconds
1438 Finding Best Fits and Testing Model
1439 Created Estimates at 0.010150500000008833 seconds
1440 R Squared SCORE:
1441 0.18521537048877024
1442 Run Completed at 44.62998389999996 seconds.
1443
1444 Creating Data for RandomForest_MaxTrees150_RUN_6
1445 Model Made at 45.72656010000003 seconds
1446 Finding Best Fits and Testing Model
1447 Created Estimates at 0.01096780000000308 seconds
1448 R Squared SCORE:
1449 0.6983379453986445
1450 Run Completed at 45.73778190000007 seconds.
1451
1452 Creating Data for RandomForest_MaxTrees150_RUN_7
1453 Model Made at 43.989962200000036 seconds
1454 Finding Best Fits and Testing Model
1455 Created Estimates at 0.009414300000003095 seconds
1456 R Squared SCORE:
1457 0.62837252858209
```

```
1458 Run Completed at 43.99961880000001 seconds.  
1459  
1460 Creating Data for RandomForest_MaxTrees150_RUN_8  
1461 Model Made at 44.41997519999995 seconds  
1462 Finding Best Fits and Testing Model  
1463 Created Estimates at 0.009049600000025748 seconds  
1464 R Squared SCORE:  
1465 0.8267396523164772  
1466 Run Completed at 44.42925649999995 seconds.  
1467  
1468 Creating Data for RandomForest_MaxTrees150_RUN_9  
1469 Model Made at 43.419349799999964 seconds  
1470 Finding Best Fits and Testing Model  
1471 Created Estimates at 0.010652400000026319 seconds  
1472 R Squared SCORE:  
1473 0.6990220803105245  
1474 Run Completed at 43.43033030000004 seconds.  
1475  
1476 Creating Data for RandomForest_MaxTrees150_RUN_10  
1477 Model Made at 43.50181280000004 seconds  
1478 Finding Best Fits and Testing Model  
1479 Created Estimates at 0.010054100000047583 seconds  
1480 R Squared SCORE:  
1481 0.6433880983512026  
1482 Run Completed at 43.51213240000004 seconds.  
1483  
1484 RandomForest_MaxTrees150 all runs completed at 446.  
42596719999995 seconds.  
1485 R^2 SCORES GREATEST TO LOWEST:  
1486 RandomForest_MaxTrees50_RUN_9: 0.9685844225782035  
1487 DescTree_MaxDepth1000_RUN_9: 0.9633470171136109  
1488 RandomForest_MaxTrees150_RUN_1: 0.9202049340989942  
1489 RandomForest_MaxTrees100_RUN_1: 0.9187516389169529  
1490 DescTree_MaxDepth1000_RUN_6: 0.9131880499283814  
1491 DescTree_MaxDepth100_RUN_3: 0.9128545174588983  
1492 Lasso_Regression_RUN_7: 0.9028608430011488  
1493 RandomForest_MaxTrees50_RUN_2: 0.9025178874669917  
1494 DescTree_MaxDepth500_RUN_10: 0.8919994193517169  
1495 Lasso_Regression_RUN_8: 0.8912389496576765  
1496 DescTree_MaxDepth1000_RUN_5: 0.8885980770441524  
1497 DescTree_NoMaxDepth_RUN_8: 0.8879713805429647
```

1498	DescTree_MaxDepth100_RUN_6:	0.8809482838497888
1499	DescTree_NoMaxDepth_RUN_9:	0.8764640440063043
1500	DescTree_NoMaxDepth_RUN_7:	0.8721247984238262
1501	RandomForest_MaxTrees100_RUN_4:	0.8712395757053629
1502	DescTree_MaxDepth100_RUN_10:	0.8707920845993836
1503	RandomForest_MaxTrees100_RUN_6:	0.8657358993194743
1504	DescTree_MaxDepth100_RUN_5:	0.8638978144388634
1505	DescTree_MaxDepth1000_RUN_1:	0.8600961599238137
1506	RandomForest_MaxTrees150_RUN_3:	0.8549527208232037
1507	Lasso_Regression_RUN_3:	0.8507978255696932
1508	RandomForest_MaxTrees50_RUN_7:	0.8421571423297027
1509	RandomForest_MaxTrees100_RUN_3:	0.8408089461635119
1510	RandomForest_MaxTrees50_RUN_1:	0.8400973454170627
1511	KNN_Neighbor1_RUN_2:	0.8350732067497884
1512	DescTree_NoMaxDepth_RUN_4:	0.8307407696917585
1513	RandomForest_MaxTrees150_RUN_8:	0.8267396523164772
1514	Linear_Regression_RUN_1:	0.8245134600916995
1515	DescTree_MaxDepth100_RUN_9:	0.8223823488735775
1516	Lasso_Regression_RUN_4:	0.8159546760995372
1517	RandomForest_MaxTrees150_RUN_4:	0.8146010174492055
1518	RandomForest_MaxTrees50_RUN_8:	0.8033085094036282
1519	KNN_Neighbor3_RUN_2:	0.8007030919102076
1520	SVM_LINEAR_RUN_1:	0.7958881552579742
1521	RandomForest_MaxTrees100_RUN_9:	0.7911881085090124
1522	Linear_Regression_RUN_6:	0.7874935021435572
1523	Linear_Regression_RUN_3:	0.7814771973484975
1524	Linear_Regression_RUN_5:	0.7704397844015373
1525	RandomForest_MaxTrees50_RUN_5:	0.7673342597909728
1526	Lasso_Regression_RUN_9:	0.7516711568387924
1527	DescTree_MaxDepth500_RUN_5:	0.7350553734476304
1528	RandomForest_MaxTrees100_RUN_10:	0.7322246388159224
1529	RandomForest_MaxTrees100_RUN_2:	0.728095594218997
1530	DescTree_NoMaxDepth_RUN_5:	0.7253235197567338
1531	Linear_Regression_RUN_8:	0.716396626746992
1532	Lasso_Regression_RUN_6:	0.7147217224939111
1533	DescTree_NoMaxDepth_RUN_10:	0.7060492647639846
1534	DescTree_MaxDepth500_RUN_6:	0.699130172457137
1535	RandomForest_MaxTrees150_RUN_9:	0.6990220803105245
1536	RandomForest_MaxTrees150_RUN_6:	0.6983379453986445
1537	DescTree_NoMaxDepth_RUN_6:	0.6822903005822798
1538	DescTree_MaxDepth500_RUN_9:	0.6740728033240577

1539	DescTree_MaxDepth1000_RUN_2:	0.6593939686070092
1540	RandomForest_MaxTrees150_RUN_10:	0.6433880983512026
1541	RandomForest_MaxTrees50_RUN_10:	0.6418408082732783
1542	DescTree_MaxDepth1000_RUN_7:	0.6398136015684266
1543	Linear_Regression_RUN_9:	0.6391540388850312
1544	RandomForest_MaxTrees150_RUN_7:	0.62837252858209
1545	RandomForest_MaxTrees100_RUN_5:	0.6252608249731277
1546	Lasso_Regression_RUN_1:	0.6247298752853565
1547	KNN_Neighbor5_RUN_5:	0.5961509858131468
1548	RandomForest_MaxTrees50_RUN_4:	0.5843431797187724
1549	RandomForest_MaxTrees150_RUN_2:	0.5792160436446769
1550	KNN_Neighbor5_RUN_9:	0.5707102192744591
1551	KNN_Neighbor1_RUN_7:	0.5476020408163265
1552	DescTree_MaxDepth1000_RUN_3:	0.4987369985141159
1553	DescTree_MaxDepth100_RUN_1:	0.4981852381193459
1554	DescTree_NoMaxDepth_RUN_3:	0.49151181624260754
1555	DescTree_MaxDepth100_RUN_7:	0.4812933807347215
1556	Linear_Regression_RUN_2:	0.47036174829095045
1557	KNN_Neighbor3_RUN_5:	0.4623156844711933
1558	Linear_Regression_RUN_10:	0.4572797626822339
1559	DescTree_MaxDepth500_RUN_3:	0.4478438800741532
1560	Lasso_Regression_RUN_10:	0.44587100300916327
1561	Linear_Regression_RUN_4:	0.436229752889309
1562	DescTree_MaxDepth500_RUN_4:	0.4357871966470628
1563	DescTree_MaxDepth1000_RUN_10:	0.4350289810168182
1564	RandomForest_MaxTrees100_RUN_7:	0.4302039516763949
1565	Lasso_Regression_RUN_2:	0.421920937311161
1566	RandomForest_MaxTrees50_RUN_3:	0.39407572249093525
1567	SVM_LINEAR_RUN_5:	0.3817441750886019
1568	DescTree_MaxDepth500_RUN_8:	0.33036844479147975
1569	DescTree_MaxDepth100_RUN_8:	0.3214698631561561
1570	RandomForest_MaxTrees100_RUN_8:	0.3211862064231795
1571	SVM_LINEAR_RUN_9:	0.3056150865328672
1572	KNN_Neighbor9_RUN_8:	0.270951253601865
1573	KNN_Neighbor5_RUN_4:	0.25246692752002986
1574	DescTree_MaxDepth100_RUN_4:	0.24755576805763935
1575	SVM_LINEAR_RUN_10:	0.2467918719982526
1576	RandomForest_MaxTrees50_RUN_6:	0.24444062276211465
1577	KNN_Neighbor9_RUN_2:	0.240728382465489
1578	Linear_Regression_RUN_7:	0.23323780301586616
1579	KNN_Neighbor3_RUN_6:	0.19725693960792923

1580	Lasso_Regression_RUN_5:	0.18558878124641554
1581	RandomForest_MaxTrees150_RUN_5:	0.18521537048877024
1582	DescTree_MaxDepth500_RUN_1:	0.18201443721392252
1583	SVM_POLY_RUN_5:	0.16624222785187626
1584	KNN_Neighbor7_RUN_6:	0.1465455080218977
1585	KNN_Neighbor5_RUN_6:	0.09401968844199915
1586	KNN_Neighbor9_RUN_7:	0.08870964557991512
1587	SVM_POLY_RUN_7:	0.06333388920090144
1588	KNN_Neighbor9_RUN_4:	0.05923131978165108
1589	KNN_Neighbor9_RUN_9:	0.036520373326415334
1590	SVM_POLY_RUN_4:	0.035886909469568073
1591	SVM_SIGMOID_RUN_7:	0.03372777162616747
1592	SVM_RBF_RUN_9:	0.02823625199547697
1593	SVM_RBF_RUN_3:	0.027015409343123076
1594	SVM_SIGMOID_RUN_1:	0.013603301060817197
1595	SVM_RBF_RUN_2:	0.005369896678296127
1596	SVM_RBF_RUN_5:	0.004164706513924088
1597	SVM_SIGMOID_RUN_4:	-0.0007055224971304064
1598	SVM_POLY_RUN_3:	-0.00372775378812773
1599	SVM_POLY_RUN_1:	-0.005707696894912129
1600	SVM_POLY_RUN_2:	-0.005836174017267437
1601	SVM_RBF_RUN_1:	-0.01624283272723659
1602	SVM_POLY_RUN_10:	-0.016955316481209293
1603	SVM_RBF_RUN_7:	-0.017298194719000737
1604	KNN_Neighbor9_RUN_3:	-0.017348156147640292
1605	SVM_SIGMOID_RUN_10:	-0.03587719270228318
1606	SVM_SIGMOID_RUN_5:	-0.036297138284266284
1607	KNN_Neighbor7_RUN_10:	-0.05356743379841333
1608	KNN_Neighbor3_RUN_10:	-0.06306753700281553
1609	KNN_Neighbor3_RUN_1:	-0.08496282986294612
1610	SVM_SIGMOID_RUN_2:	-0.09191504481781343
1611	KNN_Neighbor1_RUN_9:	-0.095715435603978
1612	KNN_Neighbor1_RUN_4:	-0.09628438922136184
1613	KNN_Neighbor7_RUN_8:	-0.09795583420687204
1614	KNN_Neighbor3_RUN_7:	-0.09858676589641524
1615	SVM_POLY_RUN_9:	-0.11090432923472715
1616	SVM_SIGMOID_RUN_8:	-0.11550614306364615
1617	SVM_RBF_RUN_10:	-0.1315205589747519
1618	KNN_Neighbor7_RUN_7:	-0.13612849320913023
1619	SVM_SIGMOID_RUN_9:	-0.14040281079989492
1620	KNN_Neighbor5_RUN_3:	-0.1453805924320537

1621	KNN_Neighbor1_RUN_8:	-0.16045414130360447
1622	KNN_Neighbor3_RUN_8:	-0.18056548157998664
1623	DescTree_NoMaxDepth_RUN_1:	-0.19520390580126357
1624	KNN_Neighbor5_RUN_10:	-0.2220087620325475
1625	KNN_Neighbor9_RUN_5:	-0.2480227621729565
1626	SVM_POLY_RUN_8:	-0.2483164316610853
1627	KNN_Neighbor7_RUN_5:	-0.2686252366144466
1628	KNN_Neighbor3_RUN_9:	-0.3289534814705659
1629	KNN_Neighbor7_RUN_9:	-0.3419225653392213
1630	SVM_RBF_RUN_8:	-0.350823476697391
1631	KNN_Neighbor7_RUN_2:	-0.35784469542468944
1632	DescTree_MaxDepth1000_RUN_8:	-0.3939841240343005
1633	KNN_Neighbor5_RUN_7:	-0.41450331446266975
1634	KNN_Neighbor7_RUN_4:	-0.4277425328260822
1635	KNN_Neighbor1_RUN_10:	-0.46308835836892115
1636	KNN_Neighbor7_RUN_3:	-0.46494215547070294
1637	SVM_RBF_RUN_6:	-0.48038890394737566
1638	SVM_SIGMOID_RUN_6:	-0.501848444440695
1639	KNN_Neighbor9_RUN_6:	-0.5056435719946419
1640	KNN_Neighbor3_RUN_4:	-0.5699503189581681
1641	KNN_Neighbor5_RUN_2:	-0.6067930611981687
1642	KNN_Neighbor9_RUN_1:	-0.6152577061182207
1643	KNN_Neighbor7_RUN_1:	-0.7410211877086648
1644	DescTree_MaxDepth100_RUN_2:	-0.7893555679866009
1645	KNN_Neighbor5_RUN_8:	-0.8004634407555251
1646	SVM_RBF_RUN_4:	-0.8329801987080527
1647	DescTree_MaxDepth500_RUN_2:	-0.8545399789188375
1648	SVM_LINEAR_RUN_2:	-0.986850512397357
1649	KNN_Neighbor3_RUN_3:	-1.0202802096173236
1650	SVM_SIGMOID_RUN_3:	-1.0383687837582638
1651	KNN_Neighbor1_RUN_5:	-1.1313401352073886
1652	KNN_Neighbor5_RUN_1:	-1.3036884601051715
1653	KNN_Neighbor1_RUN_1:	-1.3358206092227425
1654	DescTree_MaxDepth500_RUN_7:	-1.6453508403756163
1655	KNN_Neighbor1_RUN_3:	-2.003354919247874
1656	SVM_LINEAR_RUN_3:	-2.243827857613552
1657	SVM_LINEAR_RUN_6:	-2.3838780962772326
1658	DescTree_MaxDepth1000_RUN_4:	-3.4689547677888415
1659	SVM_LINEAR_RUN_4:	-3.647803808931652
1660	SVM_LINEAR_RUN_7:	-5.306492879627452
1661	DescTree_NoMaxDepth_RUN_2:	-5.408758906921738

```
1662 KNN_Neighbor9_RUN_10: -5.497202346129037
1663 KNN_Neighbor1_RUN_6: -6.325104519211626
1664 SVM_POLY_RUN_6: -7.320586078452761
1665 SVM_LINEAR_RUN_8: -10.444672166297703
1666
1667 AVG R^2 SCORES GREATEST TO LOWEST:
1668 RandomForest_MaxTrees100: 0.7124695384721936
1669 RandomForest_MaxTrees50: 0.6988699900231662
1670 RandomForest_MaxTrees150: 0.685005039146379
1671 Lasso_Regression: 0.6605355770512855
1672 Linear_Regression: 0.6116583676495674
1673 DescTree_MaxDepth100: 0.5110023731301773
1674 DescTree_MaxDepth1000: 0.1995263961893186
1675 DescTree_MaxDepth500: 0.18963809080127064
1676 DescTree_NoMaxDepth: 0.046851308128745814
1677 KNN_Neighbor3: -0.08860909083988909
1678 SVM_RBF: -0.17644679012429884
1679 SVM_SIGMOID: -0.19135900076770085
1680 KNN_Neighbor5: -0.19794898099365016
1681 KNN_Neighbor7: -0.27432046265763255
1682 KNN_Neighbor9: -0.6187333567807161
1683 SVM_POLY: -0.7446570754007744
1684 KNN_Neighbor1: -1.0228487259821384
1685 SVM_LINEAR: -2.3283486032267255
1686
1687 Finished at 977.9165564 seconds
1688
1689 Process finished with exit code 0
1690
```