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'gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.201 (+/-0.441) for {'C': 4.001,
-0.201 (+/-0.441) for {'C': 4.001,
                                        gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.201 (+/-0.441) for {'C': 4.001,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'}
gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.201 (+/-0.441) for {'C': 4.001,
-0.201 (+/-0.441) for {'C': 4.001,
                                       'gamma': 0.801, 'kernel': 'rbf'}
'gamma': 0.901, 'kernel': 'rbf'}
'gamma': 0.001, 'kernel': 'rbf'}
'gamma': 0.101, 'kernel': 'rbf'}
'gamma': 0.201, 'kernel': 'rbf'}
-0.201 (+/-0.441) for {'C': 4.001,
-0.201 (+/-0.441) for {'C': 4.001,
-0.201 (+/-0.441) for {'C': 4.501,
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                                        gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.201 (+/-0.441) for {'C': 4.501,
-0.201 (+/-0.441) for {'C': 4.501,
                                       'gamma': 0.6010000000000001, 'kernel': 'rbf'}
'gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.201 (+/-0.441) for {'C': 4.501,
-0.201 (+/-0.441) for {'C': 4.501,
-0.201 (+/-0.441) for {'C': 4.501,
                                       'gamma': 0.801, 'kernel': 'rbf'}
-0.201 (+/-0.441) for {'C': 4.501,
                                       'gamma': 0.901, 'kernel': 'rbf'}
tempo decorrido:29.383620738983154
Lag 9
Rodando Modelo
Fitting 20 folds for each of 100 candidates, totalling 2000 fits
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 56 tasks
                                                | elapsed:
                                                               0.1s
[Parallel(n_jobs=-1)]: Done 1920 tasks
                                                 | elapsed:
                                                                2.95
[Parallel(n_jobs=-1)]: Done 2000 out of 2000 | elapsed:
                                                                  3.0s finished
Criando Previsões
Calculando Pearson
r2:(0.1060209018351519, 0.365305681501101)
Support vector ratio: 0.111
Best parameters set found on development set:
{'C': 0.001, 'gamma': 0.001, 'kernel': 'rbf'}
Grid scores on development set:
-0.216 (+/-0.379) for {'C': 0.001,
                                       'gamma': 0.001, 'kernel': 'rbf'}
                                        gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.001,
-0.216 (+/-0.379) for {'C': 0.001,
-0.216 (+/-0.379) for {'C': 0.001,
                                        gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                        gamma': 0.401, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.001,
                                        gamma': 0.501, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.001,
-0.216 (+/-0.379) for {'C': 0.001,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                        gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.001,
-0.216 (+/-0.379) for {'C': 0.001,
                                        gamma': 0.801, 'kernel': 'rbf'}
                                        gamma': 0.901, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.001,
                                        gamma': 0.001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.501,
                                        gamma': 0.101, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.501,
                                        gamma': 0.201, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.501,
-0.216 (+/-0.379) for {'C': 0.501,
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                                        gamma': 0.401, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.501,
                                        gamma': 0.501, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.501,
-0.216 (+/-0.379) for {'C': 0.501,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                        gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 0.501,
-0.216 (+/-0.379) for {'C': 0.501,
                                        gamma': 0.801, 'kernel': 'rbf'}
                                        gamma': 0.901, 'kernel': 'rbf')
-0.216 (+/-0.379) for {'C': 0.501,
                                        gamma': 0.001, 'kernel': 'rbf')
-0.216 (+/-0.379) for {'C': 1.001,
                                        gamma': 0.101, 'kernel': 'rbf')
-0.216 (+/-0.379) for {'C': 1.001,
                                        gamma': 0.201, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 1.001,
                                        gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 1.001,
                                       'gamma': 0.401, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 1.001,
                                       'gamma': 0.501, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 1.001,
-0.216 (+/-0.379) for {'C': 1.001, 'gamma': 0.601000000000001, 'kernel': 'rbf'}
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gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 1.001,
-0.216 (+/-0.379) for {'C': 1.001,
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gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 1.001,
-0.216 (+/-0.379) for {'C': 1.501,
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-0.216 (+/-0.379) for {'C': 1.501,
                                        gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
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-0.216 (+/-0.379) for {'C': 1.501,
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-0.216 (+/-0.379) for {'C': 1.501,
-0.216 (+/-0.379) for {'C': 1.501,
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                                        gamma': 0.901, 'kernel': 'rbf'}
gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 1.501,
-0.216 (+/-0.379) for {'C': 2.001,
                                         gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                        gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 2.001,
-0.216 (+/-0.379) for {'C': 2.001,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 2.001,
-0.216 (+/-0.379) for {'C': 2.001,
-0.216 (+/-0.379) for {'C': 2.001,
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                                        gamma': 0.901, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 2.001,
-0.216 (+/-0.379) for {'C': 2.501,
                                         gamma': 0.001, 'kernel': 'rbf'}
                                        gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 2.501,
-0.216 (+/-0.379) for {'C': 2.501,
-0.216 (+/-0.379) for {'C': 2.501,
                                         gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 2.501,
                                         gamma': 0.401, 'kernel': 'rbf'}
                                         gamma': 0.501, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 2.501,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 2.501,
-0.216 (+/-0.379) for {'C': 2.501,
-0.216 (+/-0.379) for {'C': 2.501,
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                                        gamma': 0.901, 'kernel': 'rbf'}
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                                        gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
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-0.216 (+/-0.379) for {'C': 3.001,
-0.216 (+/-0.379) for {'C': 3.001,
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                                         gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.001,
                                         gamma': 0.401, 'kernel': 'rbf'}
                                         gamma': 0.501, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.001,
-0.216 (+/-0.379) for {'C': 3.001,
                                         gamma': 0.6010000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.001,
                                         gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.001,
                                         gamma': 0.801, 'kernel': 'rbf'}
                                         gamma': 0.901, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.001,
                                         gamma': 0.001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.501,
                                         gamma': 0.101, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.501,
-0.216 (+/-0.379) for {'C': 3.501,
                                         gamma': 0.201, 'kernel': 'rbf'}
                                         gamma': 0.30100000000000005, 'kernel': 'rbf'}
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                                         gamma': 0.6010000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.501,
                                         gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 3.501,
                                         gamma': 0.801, 'kernel': 'rbf'}
                                         gamma': 0.901, 'kernel': 'rbf')
-0.216 (+/-0.379) for {'C': 3.501,
                                         gamma': 0.001, 'kernel': 'rbf'
-0.216 (+/-0.379) for {'C': 4.001,
                                         gamma': 0.101, 'kernel': 'rbf'
-0.216 (+/-0.379) for {'C': 4.001,
                                         gamma': 0.201, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.001,
-0.216 (+/-0.379) for {'C': 4.001,
                                         gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                         gamma': 0.401, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.001,
                                         gamma': 0.501, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.001,
-0.216 (+/-0.379) for {'C': 4.001,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                        gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.001,
-0.216 (+/-0.379) for {'C': 4.001,
                                        gamma': 0.801, 'kernel': 'rbf'}
                                        'gamma': 0.901, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.001,
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```
'gamma': 0.001, 'kernel': 'rbf'}
'gamma': 0.101, 'kernel': 'rbf'}
'gamma': 0.201, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.501,
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                                      gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.501,
-0.216 (+/-0.379) for {'C': 4.501,
                                      gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.501,
-0.216 (+/-0.379) for {'C': 4.501,
-0.216 (+/-0.379) for {'C': 4.501,
                                      gamma': 0.801, 'kernel': 'rbf'}
-0.216 (+/-0.379) for {'C': 4.501,
                                      'gamma': 0.901, 'kernel': 'rbf'}
tempo decorrido:32.76657819747925
Lag 10
Rodando Modelo
Fitting 20 folds for each of 100 candidates, totalling 2000 fits
[Parallel(n jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 56 tasks
                                              | elapsed:
                                                             0.1s
[Parallel(n_jobs=-1)]: Done 1920 tasks
                                               | elapsed:
                                                              2.9s
[Parallel(n_jobs=-1)]: Done 2000 out of 2000 | elapsed:
                                                               3.1s finished
Criando Previsões
Calculando Pearson
r2:(-0.016207706358686798, 0.8909839382453678)
Support vector ratio: 0.100
Best parameters set found on development set:
{'C': 4.001, 'gamma': 0.001, 'kernel': 'rbf'}
Grid scores on development set:
-0.231 (+/-0.372) for {'C': 0.001,
                                      'gamma': 0.001, 'kernel': 'rbf'}
                                      gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.001,
-0.231 (+/-0.372) for {'C': 0.001,
                                      gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.001,
                                      gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.001,
-0.231 (+/-0.372) for {'C': 0.001,
                                      gamma': 0.60100000000000001, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.001,
-0.231 (+/-0.372) for {'C': 0.001,
                                      gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.001,
                                      gamma': 0.801, 'kernel': 'rbf'}
                                      gamma': 0.901, 'kernel': 'rbf')
-0.231 (+/-0.372) for {'C': 0.001,
-0.231 (+/-0.372) for {'C': 0.501,
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-0.231 (+/-0.372) for {'C': 0.501,
                                      gamma': 0.101, 'kernel': 'rbf'}
                                      gamma': 0.201, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.501,
                                      gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.501,
                                      gamma': 0.401, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.501,
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-0.231 (+/-0.372) for {'C': 0.501,
                                      gamma': 0.6010000000000001, 'kernel': 'rbf'}
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-0.231 (+/-0.372) for {'C': 0.501,
-0.231 (+/-0.372) for {'C': 0.501,
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                                      gamma': 0.901, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 0.501,
                                      gamma': 0.001, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 1.001,
                                      gamma': 0.101, 'kernel': 'rbf')
-0.231 (+/-0.372) for {'C': 1.001,
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-0.231 (+/-0.372) for {'C': 1.001,
                                      gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 1.001,
                                      gamma': 0.401, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 1.001,
                                      gamma': 0.501, 'kernel': 'rbf'}
-0.231 (+/-0.372) for {'C': 1.001,
-0.231 (+/-0.372) for {'C': 1.001,
                                      gamma': 0.6010000000000001, 'kernel': 'rbf'}
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-0.231 (+/-0.372) for {'C': 1.001,
-0.231 (+/-0.372) for {'C': 1.001,
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                                      gamma': 0.901, 'kernel': 'rbf')
-0.231 (+/-0.372) for {'C': 1.001,
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                                      'gamma': 0.101, 'kernel': 'rbf')
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                                      'gamma': 0.201, 'kernel': 'rbf'}
-0.231 (+/-0.371) for {'C': 1.501,
-0.231 (+/-0.371) for {'C': 1.501, 'gamma': 0.3010000000000005, 'kernel': 'rbf'}
```

```
'gamma': 0.401, 'kernel': 'rbf'}
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-0.231 (+/-0.371) for {'C': 1.501,
-0.231 (+/-0.371) for {'C': 1.501,
                                          gamma': 0.6010000000000001, 'kernel': 'rbf'}
gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.231 (+/-0.371) for {'C': 1.501,
-0.231 (+/-0.371) for {'C': 1.501,
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gamma': 0.901, 'kernel': 'rbf'}
gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
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gamma': 0.501, 'kernel': 'rbf'}
-0.231 (+/-0.371) for {'C': 2.001,
-0.231 (+/-0.371) for {'C': 2.001,
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gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
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-0.230 (+/-0.371) for {'C': 2.501,
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-0.230 (+/-0.371) for {'C': 2.501,
-0.230 (+/-0.371) for {'C': 2.501,
-0.230 (+/-0.371) for {'C': 2.501,
                                          gamma': 0.801, 'kernel': 'rbf'}
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gamma': 0.001, 'kernel': 'rbf'}
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-0.230 (+/-0.371) for {'C': 3.501,
                                          gamma': 0.001, 'kernel': 'rbf'
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                                          gamma': 0.101, 'kernel': 'rbf'
-0.230 (+/-0.370) for {'C': 4.001,
                                          gamma': 0.201, 'kernel': 'rbf'}
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-0.230 (+/-0.370) for {'C': 4.001,
                                          gamma': 0.501, 'kernel': 'rbf'}
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-0.230 (+/-0.370) for {'C': 4.001,
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-0.230 (+/-0.370) for {'C': 4.001,
-0.230 (+/-0.370) for {'C': 4.001,
                                          gamma': 0.801, 'kernel': 'rbf'}
                                          gamma': 0.901, 'kernel': 'rbf')
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                                          gamma': 0.101, 'kernel': 'rbf')
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                                          gamma': 0.201, 'kernel': 'rbf'}
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                                          gamma': 0.401, 'kernel': 'rbf'}
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                                         'gamma': 0.501, 'kernel': 'rbf'}
-0.230 (+/-0.371) for {'C': 4.501,
-0.230 (+/-0.371) for {'C': 4.501,
                                         'gamma': 0.6010000000000001, 'kernel': 'rbf'}
```

```
-0.230 (+/-0.371) for {'C': 4.501, 'gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.230 (+/-0.371) for {'C': 4.501,
                                    'gamma': 0.801, 'kernel': 'rbf'}
-0.230 (+/-0.371) for {'C': 4.501, 'gamma': 0.901, 'kernel': 'rbf'}
tempo decorrido:36.18743395805359
Lag 11
Rodando Modelo
Fitting 20 folds for each of 100 candidates, totalling 2000 fits
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 56 tasks
                                             | elapsed:
                                                            0.1s
[Parallel(n_jobs=-1)]: Done 1920 tasks
                                              | elapsed:
                                                             3.0s
[Parallel(n_jobs=-1)]: Done 2000 out of 2000 | elapsed:
                                                              3.1s finished
Criando Previsões
Calculando Pearson
r2:(0.03753052207178267, 0.7525813620356572)
Support vector ratio: 0.091
Best parameters set found on development set:
{'C': 4.001, 'gamma': 0.001, 'kernel': 'rbf'}
Grid scores on development set:
-0.239 (+/-0.392) for {'C': 0.001,
                                     'gamma': 0.001, 'kernel': 'rbf'}
                                     gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.001,
-0.239 (+/-0.392) for {'C': 0.001,
-0.239 (+/-0.392) for {'C': 0.001,
                                     gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                     gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.001,
-0.239 (+/-0.392) for {'C': 0.001,
-0.239 (+/-0.392) for {'C': 0.001,
                                     gamma': 0.6010000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.001,
                                     gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.001,
                                     gamma': 0.801, 'kernel': 'rbf'}
                                     gamma': 0.901, 'kernel': 'rbf'
-0.239 (+/-0.392) for {'C': 0.001,
                                     gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.501,
                                     gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.501,
                                     gamma': 0.401, 'kernel': 'rbf'}
                                      gamma': 0.501, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.501,
-0.239 (+/-0.392) for {'C': 0.501,
                                     gamma': 0.6010000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.501,
                                     gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.501,
                                     gamma': 0.801, 'kernel': 'rbf'}
                                     gamma': 0.901, 'kernel': 'rbf'}
-0.239 (+/-0.392) for {'C': 0.501,
                                     gamma': 0.001, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.001,
                                     gamma': 0.101, 'kernel': 'rbf'
-0.238 (+/-0.391) for {'C': 1.001,
                                     gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.001,
                                     gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.001,
                                     gamma': 0.401, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.001,
                                     gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.001,
-0.238 (+/-0.391) for {'C': 1.001,
                                     gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                     gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.001,
-0.238 (+/-0.391) for {'C': 1.001,
                                     gamma': 0.801, 'kernel': 'rbf'}
                                     gamma': 0.901, 'kernel': 'rbf')
-0.238 (+/-0.391) for {'C': 1.001,
                                     gamma': 0.001, 'kernel': 'rbf')
-0.238 (+/-0.391) for {'C': 1.501,
                                     gamma': 0.101, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.501,
                                     gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.501,
-0.238 (+/-0.391) for {'C': 1.501,
                                     gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                     gamma': 0.401, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.501,
                                     gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.501,
-0.238 (+/-0.391) for {'C': 1.501,
                                     gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                     gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.501,
                                     gamma': 0.801, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 1.501,
                                     'gamma': 0.901, 'kernel': 'rbf'
-0.238 (+/-0.391) for {'C': 1.501,
-0.238 (+/-0.391) for {'C': 2.001, 'gamma': 0.001, 'kernel': 'rbf'}
```

```
'gamma': 0.101, 'kernel': 'rbf'}
'gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 2.001,
-0.238 (+/-0.391) for {'C': 2.001,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 2.001,
                                          gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 2.001,
-0.238 (+/-0.391) for {'C': 2.001,
                                          gamma': 0.6010000000000001, 'kernel': 'rbf'}
gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 2.001,
-0.238 (+/-0.391) for {'C': 2.001,
                                          gamma': 0.801, 'kernel': 'rbf'}
gamma': 0.901, 'kernel': 'rbf'}
gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.391) for {'C': 2.001,
-0.238 (+/-0.391) for {'C': 2.001,
-0.238 (+/-0.390) for {'C': 2.501,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                          gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 2.501,
-0.238 (+/-0.390) for {'C': 2.501,
                                          gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 2.501,
-0.238 (+/-0.390) for {'C': 2.501,
-0.238 (+/-0.390) for {'C': 2.501,
                                          gamma': 0.801, 'kernel': 'rbf'}
                                          gamma': 0.901, 'kernel': 'rbf'}
gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 2.501,
-0.238 (+/-0.390) for {'C': 3.001,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                          gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 3.001,
-0.238 (+/-0.390) for {'C': 3.001,
                                          gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 3.001,
-0.238 (+/-0.390) for {'C': 3.001,
-0.238 (+/-0.390) for {'C': 3.001,
                                          gamma': 0.801, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 3.001,
                                          gamma': 0.901, 'kernel': 'rbf'}
                                          gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 3.501,
-0.238 (+/-0.390) for {'C': 3.501,
-0.238 (+/-0.390) for {'C': 3.501,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 3.501,
                                          gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 3.501,
-0.238 (+/-0.390) for {'C': 3.501,
                                          gamma': 0.60100000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 3.501,
-0.238 (+/-0.390) for {'C': 3.501,
                                          gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 3.501,
                                          gamma': 0.801, 'kernel': 'rbf'}
                                          gamma': 0.901, 'kernel': 'rbf')
-0.238 (+/-0.390) for {'C': 3.501,
                                          gamma': 0.001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.101, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.401, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.6010000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.801, 'kernel': 'rbf'}
                                          gamma': 0.901, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.001,
                                          gamma': 0.001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.501,
                                          gamma': 0.101, 'kernel': 'rbf'
-0.238 (+/-0.390) for {'C': 4.501,
                                          gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.501,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.501,
                                          gamma': 0.401, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.501,
                                          gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.501,
-0.238 (+/-0.390) for {'C': 4.501,
                                          gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                          gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.501,
-0.238 (+/-0.390) for {'C': 4.501,
                                          gamma': 0.801, 'kernel': 'rbf'}
                                          'gamma': 0.901, 'kernel': 'rbf'}
-0.238 (+/-0.390) for {'C': 4.501,
tempo decorrido:39.633448362350464
```

tempo decorrido:39.633448362350464 Lag 12 Rodando Modelo

```
Fitting 20 folds for each of 100 candidates, totalling 2000 fits
[Parallel(n_jobs=-1)]: Using backend LokyBackend with 8 concurrent workers.
[Parallel(n_jobs=-1)]: Done 56 tasks
                                                | elapsed:
Criando Previsões
Calculando Pearson
r2:(nan, nan)
Support vector ratio: 0.083
Best parameters set found on development set:
{'C': 0.001, 'gamma': 0.001, 'kernel': 'rbf'}
Grid scores on development set:
-0.238 (+/-0.426) for {'C': 0.001,
                                        gamma': 0.001, 'kernel': 'rbf'}
                                        gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 0.001,
-0.238 (+/-0.426) for {'C': 0.001,
-0.238 (+/-0.426) for {'C': 0.001,
                                        gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                        gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 0.001,
-0.238 (+/-0.426) for {'C': 0.001,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 0.001,
-0.238 (+/-0.426) for {'C': 0.001,
                                       'gamma': 0.801, 'kernel': 'rbf'}
'gamma': 0.901, 'kernel': 'rbf'}
'gamma': 0.001, 'kernel': 'rbf'}
'gamma': 0.101, 'kernel': 'rbf'}
'gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 0.001,
-0.238 (+/-0.426) for {'C': 0.001,
-0.238 (+/-0.426) for {'C': 0.501,
                                        gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 0.501,
                                        gamma': 0.401, 'kernel': 'rbf'}
                                        gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 0.501,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 0.501,
-0.238 (+/-0.426) for {'C': 0.501,
-0.238 (+/-0.426) for {'C': 0.501,
                                        gamma': 0.801, 'kernel': 'rbf'}
                                        gamma': 0.901, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 0.501,
                                        gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 1.001,
-0.238 (+/-0.426) for {'C': 1.001,
-0.238 (+/-0.426) for {'C': 1.001,
                                        gamma': 0.201, 'kernel': 'rbf'}
                                        gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 1.001,
                                        gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 1.001,
-0.238 (+/-0.426) for {'C': 1.001,
-0.238 (+/-0.426) for {'C': 1.001,
                                        gamma': 0.60100000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 1.001,
                                        gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 1.001,
                                        gamma': 0.801, 'kernel': 'rbf'}
                                        gamma': 0.901, 'kernel': 'rbf'}
-0.238 (+/-0.426) for {'C': 1.001,
                                        gamma': 0.001, 'kernel': 'rbf'}
-0.238 (+/-0.427) for {'C': 1.501,
                                        gamma': 0.101, 'kernel': 'rbf'}
-0.238 (+/-0.427) for {'C': 1.501,
                                        gamma': 0.201, 'kernel': 'rbf'}
-0.238 (+/-0.427) for {'C': 1.501,
                                        gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.238 (+/-0.427) for {'C': 1.501,
                                        gamma': 0.401, 'kernel': 'rbf'}
-0.238 (+/-0.427) for {'C': 1.501,
                                        gamma': 0.501, 'kernel': 'rbf'}
-0.238 (+/-0.427) for {'C': 1.501,
-0.238 (+/-0.427) for {'C': 1.501,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                        gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.238 (+/-0.427) for {'C': 1.501,
-0.238 (+/-0.427) for {'C': 1.501,
                                        gamma': 0.801, 'kernel': 'rbf'}
                                        gamma': 0.901, 'kernel': 'rbf')
-0.238 (+/-0.427) for {'C': 1.501,
                                        gamma': 0.001, 'kernel': 'rbf'
-0.239 (+/-0.427) for {'C': 2.001,
                                        gamma': 0.101, 'kernel': 'rbf')
-0.239 (+/-0.427) for {'C': 2.001,
                                        gamma': 0.201, 'kernel': 'rbf'}
-0.239 (+/-0.427) for {'C': 2.001,
                                        gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.239 (+/-0.427) for {'C': 2.001,
                                        gamma': 0.401, 'kernel': 'rbf'}
-0.239 (+/-0.427) for {'C': 2.001,
-0.239 (+/-0.427) for {'C': 2.001,
                                        gamma': 0.501, 'kernel': 'rbf'}
-0.239 (+/-0.427) for {'C': 2.001,
                                        gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                        gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.427) for {'C': 2.001,
-0.239 (+/-0.427) for {'C': 2.001,
                                       -0.239 (+/-0.427) for {'C': 2.001,
                                       'gamma': 0.901, 'kernel': 'rbf'}
```

```
'gamma': 0.001, 'kernel': 'rbf'}
'gamma': 0.101, 'kernel': 'rbf'}
'gamma': 0.201, 'kernel': 'rbf'}
-0.239 (+/-0.428) for {'C': 2.501,
-0.239 (+/-0.428) for {'C': 2.501,
-0.239 (+/-0.428) for {'C': 2.501,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
-0.239 (+/-0.428) for {'C': 2.501,
                                         gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.239 (+/-0.428) for {'C': 2.501,
-0.239 (+/-0.428) for {'C': 2.501,
                                         gamma': 0.6010000000000001, 'kernel': 'rbf'}
gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.428) for {'C': 2.501,
-0.239 (+/-0.428) for {'C': 2.501,
                                         gamma': 0.801, 'kernel': 'rbf'}
gamma': 0.901, 'kernel': 'rbf'}
gamma': 0.001, 'kernel': 'rbf'}
gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.239 (+/-0.428) for {'C': 2.501,
-0.239 (+/-0.428) for {'C': 2.501,
-0.239 (+/-0.428) for {'C': 3.001,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                         gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.239 (+/-0.428) for {'C': 3.001,
-0.239 (+/-0.428) for {'C': 3.001,
                                         gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.428) for {'C': 3.001,
-0.239 (+/-0.428) for {'C': 3.001,
-0.239 (+/-0.428) for {'C': 3.001,
                                          gamma': 0.801, 'kernel': 'rbf'}
                                         gamma': 0.901, 'kernel': 'rbf'}
-0.239 (+/-0.428) for {'C': 3.001,
-0.239 (+/-0.429) for {'C': 3.501,
                                          gamma': 0.001, 'kernel': 'rbf'}
                                         gamma': 0.101, 'kernel': 'rbf'}
gamma': 0.201, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 3.501,
-0.239 (+/-0.429) for {'C': 3.501,
-0.239 (+/-0.429) for {'C': 3.501,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                         gamma': 0.401, 'kernel': 'rbf'}
gamma': 0.501, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 3.501,
-0.239 (+/-0.429) for {'C': 3.501,
                                         gamma': 0.6010000000000001, 'kernel': 'rbf'} gamma': 0.701000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 3.501,
-0.239 (+/-0.429) for {'C': 3.501,
-0.239 (+/-0.429) for {'C': 3.501,
                                         gamma': 0.801, 'kernel': 'rbf'}
                                         gamma': 0.901, 'kernel': 'rbf'}
gamma': 0.001, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 3.501,
-0.239 (+/-0.429) for {'C': 4.001,
                                         gamma': 0.101, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.001,
                                         gamma': 0.201, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.001,
-0.239 (+/-0.429) for {'C': 4.001,
                                          gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                         gamma': 0.401, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.001,
                                         gamma': 0.501, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.001,
                                         gamma': 0.60100000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.001,
-0.239 (+/-0.429) for {'C': 4.001,
                                          gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.001,
                                         gamma': 0.801, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.001,
                                         gamma': 0.901, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.501,
                                         gamma': 0.001, 'kernel': 'rbf'}
                                         gamma': 0.101, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.501,
                                         gamma': 0.201, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.501,
-0.239 (+/-0.429) for {'C': 4.501,
                                         gamma': 0.30100000000000005, 'kernel': 'rbf'}
                                         gamma': 0.401, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.501,
                                         gamma': 0.501, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.501,
-0.239 (+/-0.429) for {'C': 4.501,
                                         gamma': 0.6010000000000001, 'kernel': 'rbf'}
                                         gamma': 0.7010000000000001, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.501,
-0.239 (+/-0.429) for {'C': 4.501,
                                         'gamma': 0.801, 'kernel': 'rbf'}
-0.239 (+/-0.429) for {'C': 4.501, 'gamma': 0.901, 'kernel': 'rbf'}
tempo decorrido:43.091238260269165
tempo decorrido total:43.091238260269165
                                                   | elapsed:
[Parallel(n_jobs=-1)]: Done 1920 tasks
                                                                   3.05
[Parallel(n_jobs=-1)]: Done 2000 out of 2000 | elapsed:
                                                                     3.1s finished
C:\Users\pamsb\Anaconda3\lib\site-packages\scipy\stats\stats.py:3508:
PearsonRConstantInputWarning: An input array is constant; the correlation coefficent is
not defined.
  warnings.warn(PearsonRConstantInputWarning())
```

In [**31**]: