Distance calculation on RAW Dataset

```
10 points closed to the point P using euclidean distance
  area A kernel width
49 14.86
            3.258 0.012491
38 14.80
            3.288 0.055880
48 14.79
         3.291 0.066018
1 14.88 3.333 0.081175
6 14.69 3.259 0.157524
24 15.01 3.245 0.163045
57 14.92 3.412 0.169655
47 14.99
            3.377 0.185248
55 15.03
            3.212 0.188334
34 15.05
            3.328 0.214038
10 points closed to the point P using Mahalanobis distance
  area A kernel width
                       md
49 14.86
            3.258 0.024394
0 15.26
           3.312 0.142617
66 14.34 3.190 0.181803
53 14.33
          3.199 0.188329
6 14.69 3.259 0.229799
         3.168 0.254778
21 14.11
67 14.01 3.158 0.292948
33 13.94
            3.150 0.318301
32 14.09
            3.186 0.362420
24 15.01
            3.245 0.380052
10 points closed to the point P using City block metric is
  area A kernel width
                       cbm
49 14.86
            3.258 0.013081
38 14.80
            3.288 0.076919
48 14.79 3.291 0.089919
1 14.88 3.333 0.106871
6 14.69 3.259 0.157919
24 15.01
         3.245 0.176081
57 14.92
          3.412 0.225871
55 15.03
            3.212 0.229081
47 14.99
            3.377 0.260871
34 15.05
            3.328 0.271871
```

10 points closed to the point P using Minkowski metric(for r=3) area A kernel width mkski

```
49 14.86
             3.258 0.012477
38 14.80
             3.288 0.051011
48 14.79
             3.291 0.060763
1 14.88
            3.333 0.076403
6 14.69
            3.259 0.157524
57 14.92
             3.412 0.158609
24 15.01
             3.245 0.162508
47 14.99
             3.377 0.165727
55 15.03
             3.212 0.183484
34 15.05
             3.328 0.205158
10 points closed to the point P using Chebyshev distance
  area A kernel width
                         cd
49 14.86
             3.258 0.012476
38 14.80
             3.288 0.047524
48 14.79
             3.291 0.057524
1 14.88
            3.333 0.074395
47 14.99
             3.377 0.142476
57 14.92
             3.412 0.153395
6 14.69
            3.259 0.157524
24 15.01
             3.245 0.162476
55 15.03
             3.212 0.182476
34 15.05
             3.328 0.202476
10 points closed to the point P using Cosine distance
   area A kernel width
                         cosined
68 14.37
             3.153 1.417635e-09
49 14.86
             3.258 2.303380e-08
43 15.50
             3.396 6.383338e-08
134 15.56
              3.408 9.140845e-08
4 16.14
             3.562 6.799903e-07
22 15.88
             3.507 8.568926e-07
46 15.36
             3.393 9.264121e-07
20 14.16
             3.129 1.027863e-06
34 15.05
             3.328 1.250652e-06
31 15.49
             3.371 1.553713e-06
10 points closed to the point P using canberra distance
  area_A kernel_width canberra
49 14.86
             3.258 0.000513
6 14.69
            3.259 0.005394
```

3.288 0.006093

3.291 0.006887

3.245 0.007534

38 14.80

48 14.79

24 15.01

```
      1
      14.88
      3.333
      0.012379

      55
      15.03
      3.212
      0.013310

      10
      15.26
      3.242
      0.016254

      50
      14.43
      3.272
      0.016312

      34
      15.05
      3.328
      0.017308
```

Distance calculation on Normalized Dataset

```
10 points closed to the point P using euclidean distance
```

```
area A kernel width
                       ed
49 0.4032
            0.4476 0.001251
6 0.3872
           0.4483 0.014833
24 0.4174 0.4383 0.018198
38 0.3975
           0.4690 0.021439
48 0.3966 0.4711 0.023686
55 0.4193 0.4148 0.037463
50 0.3626 0.4576 0.040572
10 0.4410 0.4362 0.040730
132 0.4523 0.4547 0.050708
34 0.4212
            0.4975 0.053040
```

10 points closed to the point P using Mahalanobis distance

10 points closed to the point P using City block metric is area A kernel width cbm

49 0.4032 0.4476 0.001614 6 0.3872 0.4483 0.015086 24 0.4174 0.4383 0.025114 38 0.3975 0.4690 0.025486

```
48 0.3966
             0.4711 0.028486
50 0.3626
             0.4576 0.048986
55 0.4193
             0.4148 0.050514
10 0.4410
             0.4362 0.050814
1 0.4051
            0.5011 0.056124
132 0.4523
              0.4547 0.056924
10 points closed to the point P using Minkowski metric(for r=3)
  area A kernel width
                        mkski
49 0.4032
             0.4476 0.001190
6 0.3872
            0.4483 0.014831
24 0.4174
           0.4383 0.016578
38 0.3975
             0.4690 0.021025
48 0.3966
             0.4711 0.023155
55 0.4193
             0.4148 0.034731
10 0.4410
             0.4362 0.039330
50 0.3626
             0.4576 0.039617
0 0.4410
            0.4861 0.048529
132 0.4523
              0.4547 0.050308
10 points closed to the point P using Chebyshev distance
  area A kernel width
49 0.4032
            0.4476 0.001169
6 0.3872
            0.4483 0.014831
24 0.4174 0.4383 0.015369
38 0.3975
            0.4690 0.020955
48 0.3966
            0.4711 0.023055
55 0.4193
            0.4148 0.033245
0 0.4410
            0.4861 0.038969
10 0.4410
            0.4362 0.038969
50 0.3626
            0.4576 0.039431
5 0.3579
            0.4861 0.044131
10 points closed to the point P using Cosine distance
  area A kernel width cosined
49 0.4032
             0.4476 0.000002
140 0.2342
              0.2594 0.000005
162 0.1379
             0.1547 0.000005
36 0.5297
             0.5944 0.000006
112 0.8064
              0.9066 0.000009
139 0.5326
              0.6001 0.000015
0 0.4410
            0.4861 0.000015
```

66 0.3541

130 0.7280

0.3991 0.000016

0.8019 0.000017

9 0.5524 0.6237 0.000021

10 points closed to the point P using canberra distance area_A kernel_width canberrajaccard

49 0.4032	0.4476	0.001949
6 0.3872	0.4483	0.019076
38 0.3975	0.4690	0.028517
24 0.4174	0.4383	0.029751
48 0.3966	0.4711	0.031883
55 0.4193	0.4148	0.059555
10 0.4410	0.4362	0.059621
1 0.4051	0.5011	0.059700
50 0.3626	0.4576	0.062119
132 0.4523	0.4547	0.066212

Distance calculation on Standardized Dataset

10 points closed to the point P using euclidean distance area_A kernel_width ed

```
49 0.0043
          -0.0016 0.004588
6 -0.0543
          0.0010 0.054310
24 0.0560 -0.0361 0.066627
48 -0.0198
         0.0860 0.088250
55 0.0629
          -0.1237 0.138773
50 -0.1438
         0.0355 0.148118
10 0.1421 -0.0441 0.148785
132 0.1834 0.0249 0.185082
34 0.0698
           0.1842 0.196981
```

10 points closed to the point P using Mahalanobis distance area_A kernel_width md

	_	_
49	0.0043	-0.0016 0.024379
0 (0.1421	0.1417 0.142617
66	-0.1748	-0.1821 0.181851
53	-0.1783	-0.1582 0.188333
6 -	0.0543	0.0010 0.229739
21	-0.2541	-0.2404 0.254832
67	-0.2885	-0.2670 0.292893
33	-0.3126	-0.2882 0.318243
32	-0.2610	-0.1927 0.362481

24 0.0560 -0.0361 0.380138 10 points closed to the point P using City block metric is area A kernel width cbm 49 0.0043 -0.0016 0.0059 6 -0.0543 0.0010 0.0553 24 0.0560 -0.0361 0.0921 38 -0.0164 0.0780 0.0944 48 -0.0198 0.0860 0.1058 50 -0.1438 0.0355 0.1793 10 0.1421 -0.0441 0.1862 55 0.0629 -0.1237 0.1866 132 0.1834 0.0249 0.2083 1 0.0112 0.1974 0.2086 10 points closed to the point P using Minkowski metric(for r=3) area A kernel width mkski 49 0.0043 -0.0016 0.004372 6 -0.0543 0.0010 0.054301 24 0.0560 -0.0361 0.060610 38 -0.0164 0.0780 0.078241 48 -0.0198 0.0860 0.086348 55 0.0629 -0.1237 0.128899 10 0.1421 -0.0441 0.143501 50 -0.1438 0.0355 0.144518 0 0.1421 0.1417 0.178783 132 0.1834 0.0249 0.183552 10 points closed to the point P using Chebyshev distance area A kernel width 49 0.0043 -0.0016 0.0043 0.0010 0.0543 -0.0361 0.0560

0 0.1421 0.1417 0.1421

10 0.1421 -0.0441 0.1421 50 -0.1438 0.0355 0.1438

10 points closed to the point P using Cosine distance area_A kernel_width cosined

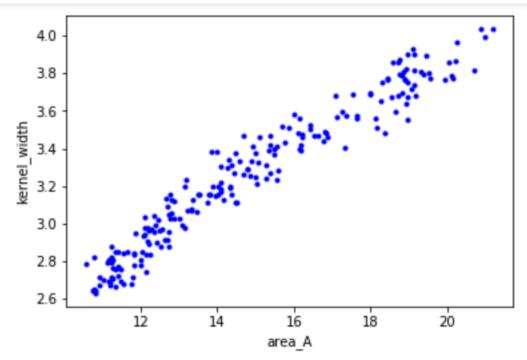
132 0.1834 0.0249 0.009091

```
138 0.2592
              0.0727 0.037156
137 0.2489
             -0.0733 0.040733
10 0.1421
             -0.0441 0.044936
49 0.0043
             -0.0016 0.062778
76 0.8518
             0.3832 0.088034
94 1.2100
             0.6008 0.104333
97 1.4236
             0.7786 0.122647
98 1.1446
             0.6725 0.137804
24 0.0560
             -0.0361 0.159505
```

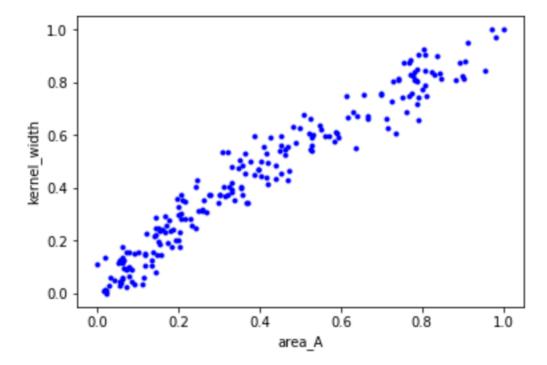
10 points closed to the point P using canberra distance area A kernel width canberra

49 0.0043 -0.0016 1.999779 1 0.0112 0.1974 1.999915 0.4071 1.999962 57 0.0250 47 0.0491 0.3142 1.999981 24 0.0560 -0.0361 1.999983 55 0.0629 -0.1237 1.999985 34 0.0698 0.1842 1.999986 44 0.0904 0.5398 1.999989 0 0.1421 0.1417 1.999993 10 0.1421 -0.0441 1.999993

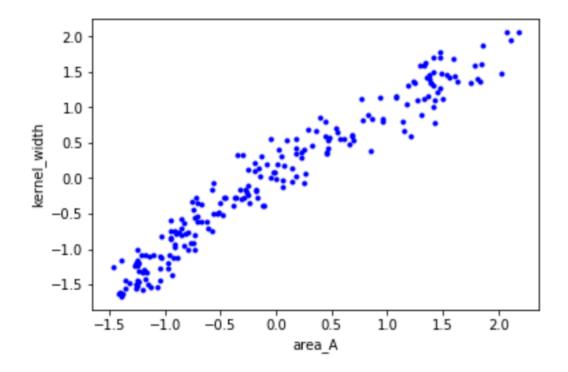
Raw Dataset

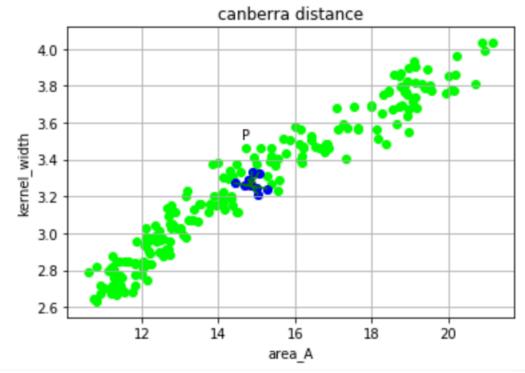


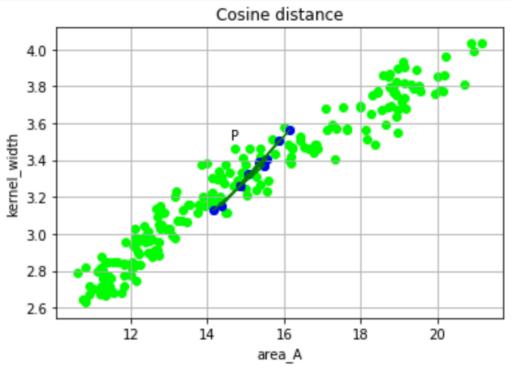
Normalized Dataset

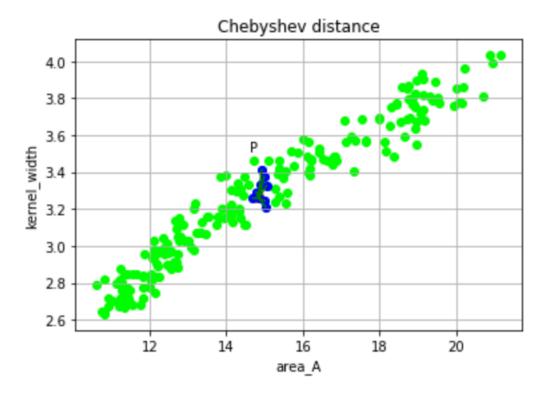


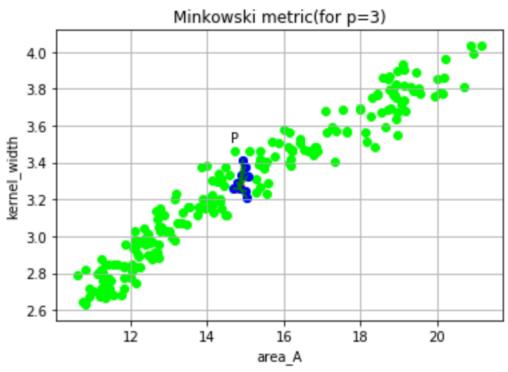
Standardized Dataset

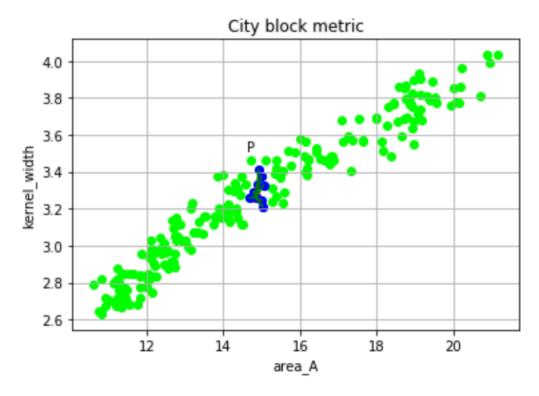


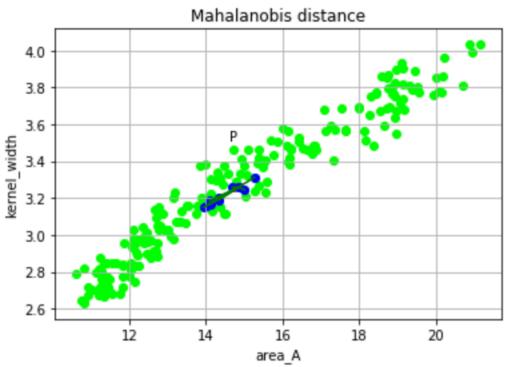


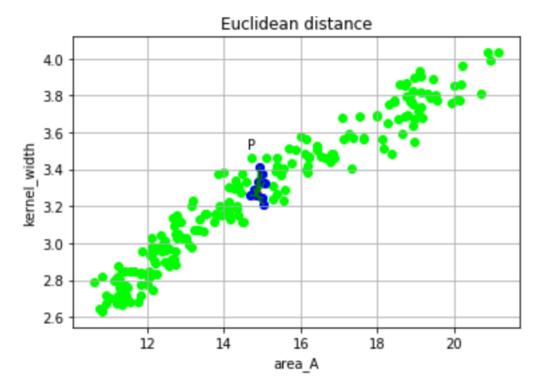




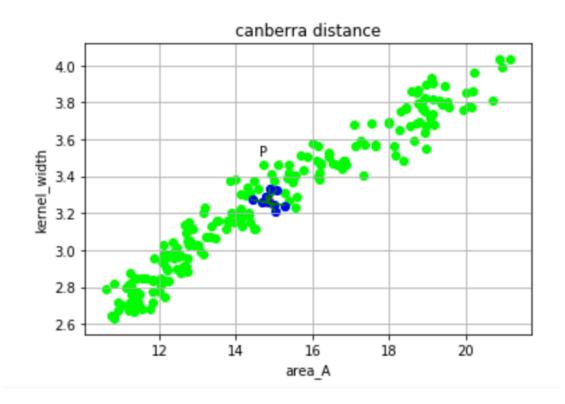


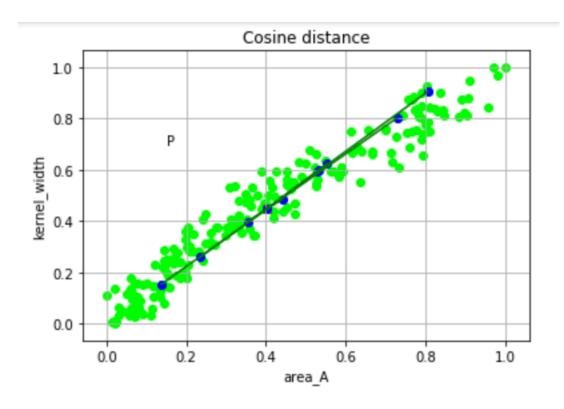


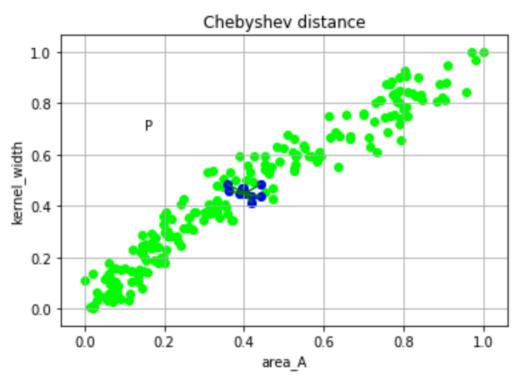


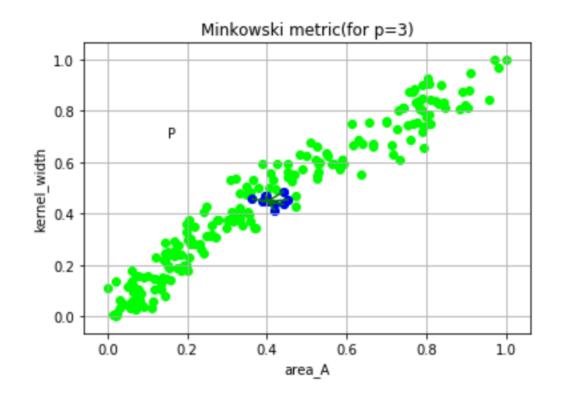


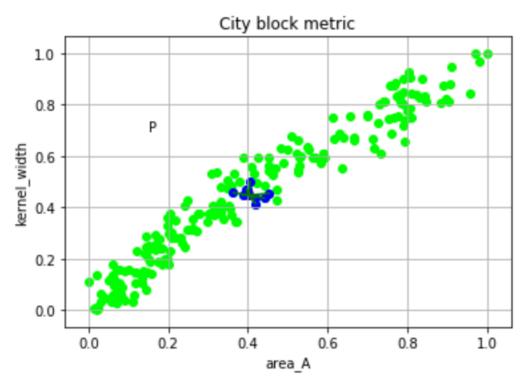
Normalized Dataset

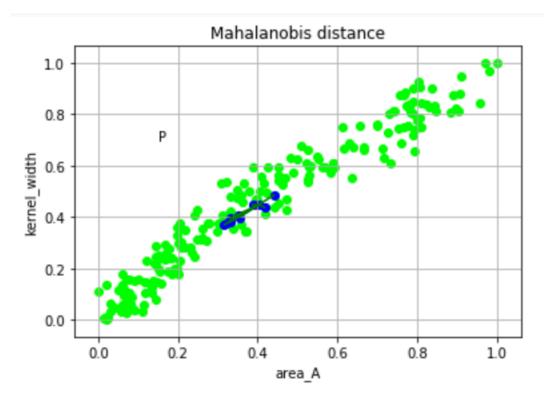


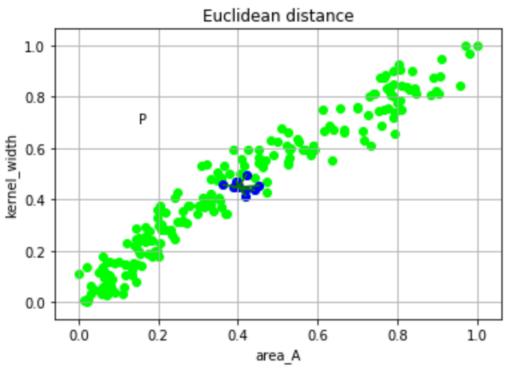












Standardized Dataset

