

Ant colony optimization

(Dorigo, 1992)



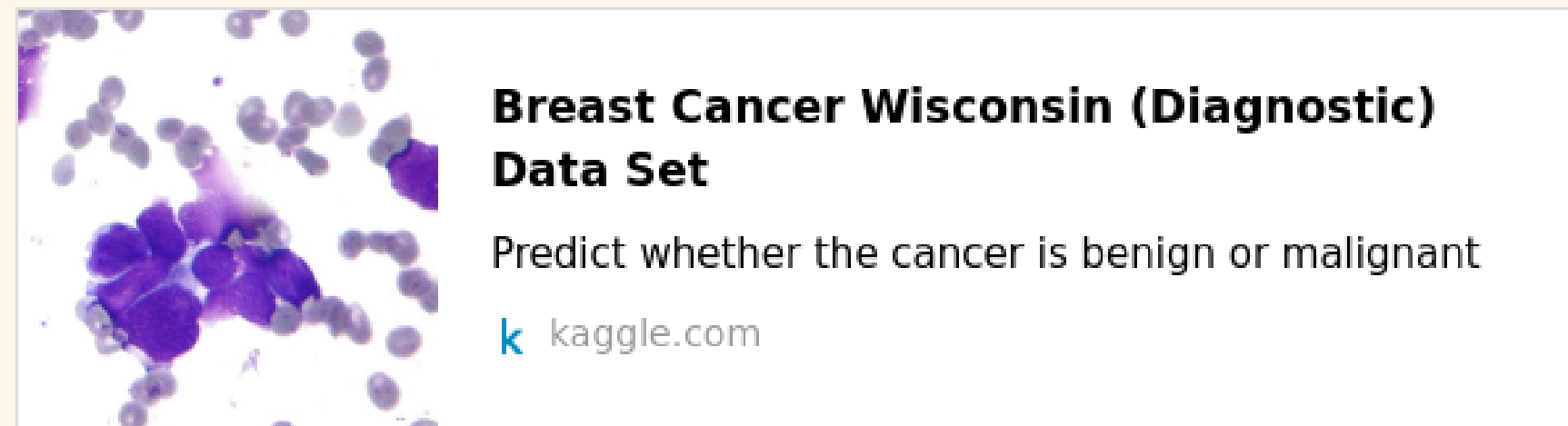
Member

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มะเร็งเต้านม

Feature Extraction Problem


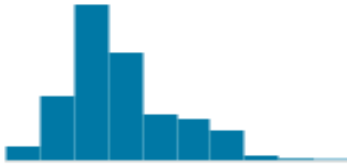
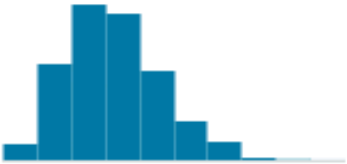
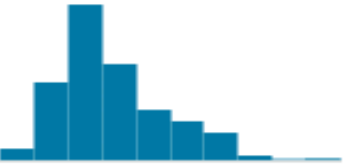

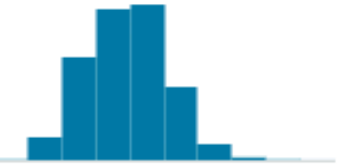
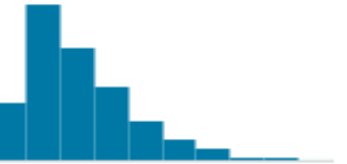
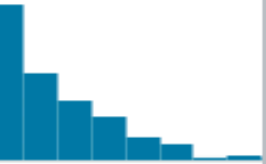
Breast Cancer Wisconsin (Diagnostic) Data Set



เป็น dataset วิจัยมะเร็งเต้านม มี 569 ตัวอย่าง

About this file

This file contains all the data in

| id | diagnosis | radius_mean | texture_mean | perimeter_mean | area_mean | smoothness_mean | compactness_m... | concavity_mean |
|---|---|--|---|--|--|---|---|--|
| ID number | The diagnosis of breast tissues (M = malignant, B = benign) | mean of distances from center to points on the perimeter | standard deviation of gray-scale values | mean size of the core tumor | | mean of local variation in radius lengths | mean of perimeter^2 / area - 1.0 | mean of severity of concave portions of contour |
|  8670911m | <div><div>B63%</div><div>M37%</div></div> |  6.9828.1 |  9.7139.3 |  43.8189 |  1442.5k |  0.050.16 |  0.020.35 |  0 |
| 842302 | M | 17.99 | 10.38 | 122.8 | 1001 | 0.1184 | 0.2776 | 0.3001 |
| 842517 | M | 20.57 | 17.77 | 132.9 | 1326 | 0.08474 | 0.07864 | 0.0869 |
| 84300903 | M | 19.69 | 21.25 | 130 | 1203 | 0.1096 | 0.1599 | 0.1974 |
| 84348301 | M | 11.42 | 20.38 | 77.58 | 386.1 | 0.1425 | 0.2839 | 0.2414 |
| 84358402 | M | 20.29 | 14.34 | 135.1 | 1297 | 0.1003 | 0.1328 | 0.198 |
| 843786 | M | 12.45 | 15.7 | 82.57 | 477.1 | 0.1278 | 0.17 | 0.1578 |
| 844359 | M | 18.25 | 19.98 | 119.6 | 1040 | 0.09463 | 0.109 | 0.1127 |
| 84458202 | M | 13.71 | 20.83 | 90.2 | 577.9 | 0.1189 | 0.1645 | 0.09366 |
| 844981 | M | 13 | 21.82 | 87.5 | 519.8 | 0.1273 | 0.1932 | 0.1859 |
| 84501001 | M | 12.46 | 24.04 | 83.97 | 475.9 | 0.1186 | 0.2396 | 0.2273 |
| 845636 | M | 16.02 | 23.24 | 102.7 | 797.8 | 0.08206 | 0.06669 | 0.03299 |
| 84610002 | M | 15.78 | 17.89 | 103.6 | 781 | 0.0971 | 0.1292 | 0.09954 |
| 846226 | M | 19.17 | 24.8 | 132.4 | 1123 | 0.0974 | 0.2458 | 0.2065 |

ผลลัพธ์

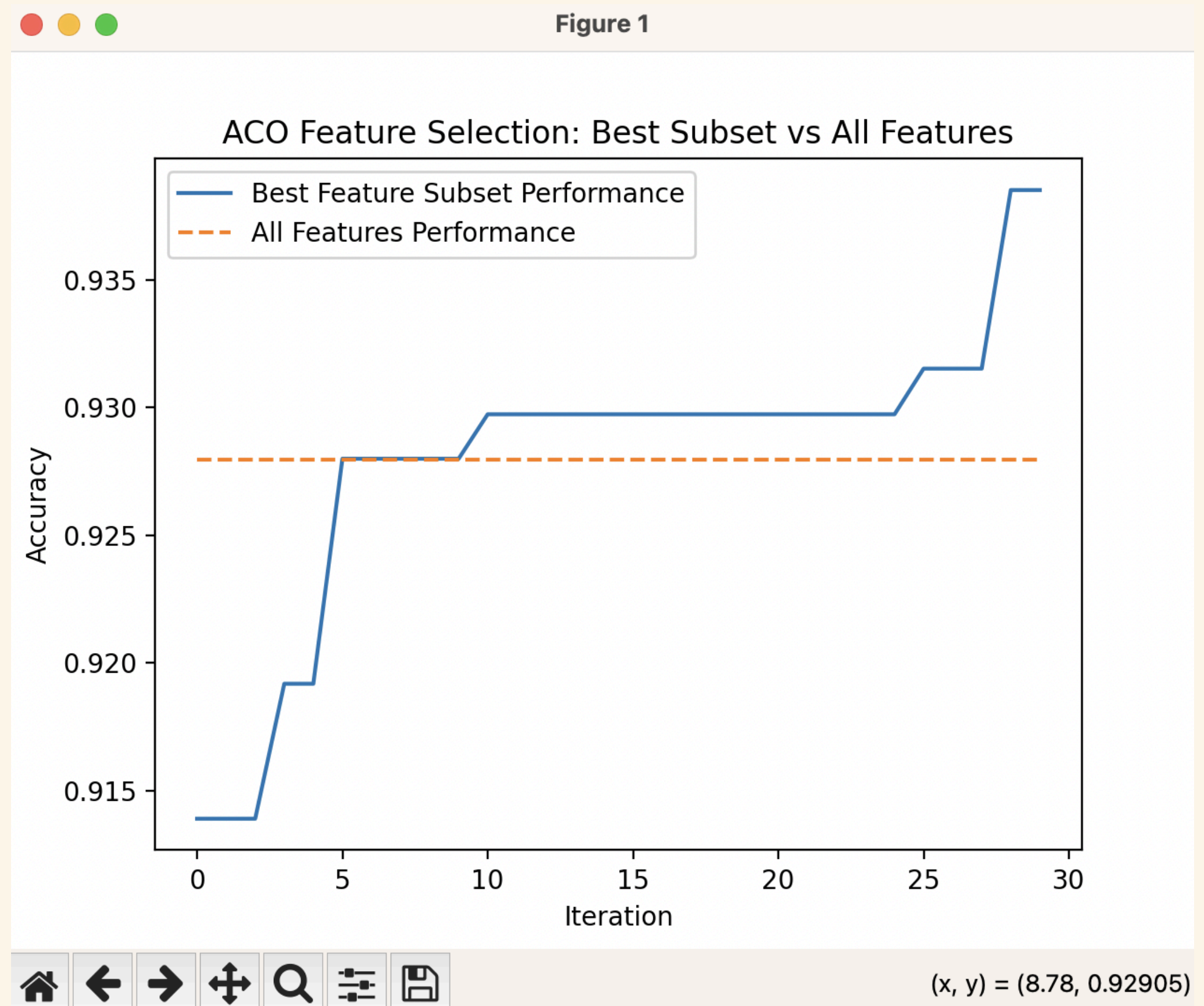
Selected Features:

- mean texture
- mean compactness
- concave points error
- worst perimeter

Not Selected Features:

- mean radius
- mean perimeter
- mean area
- mean smoothness
- mean concavity
- mean concave points
- mean symmetry
- mean fractal dimension

กราฟวัดผล



THANK YOU