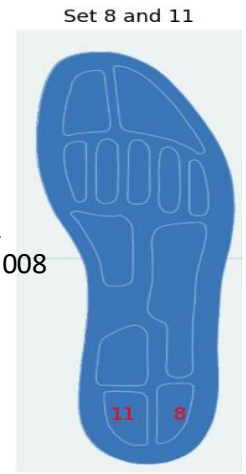
ONLY 2 COMBINATIONS

Sensors: 8 and 11
Test accuracy: 0.63
Test accuracy: 0.643
Test accuracy: 0.637
Test accuracy: 0.625
Test accuracy: 0.621
Mean accuracy: 0.631
Standard deviation: 0.008



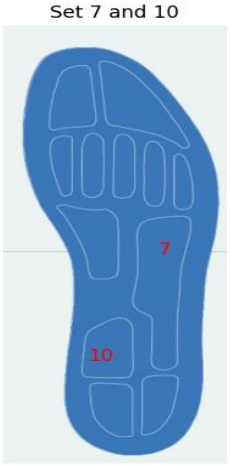
Sensors: 12 and 11
Test accuracy: 0.737
Test accuracy: 0.727
Test accuracy: 0.719
Test accuracy: 0.756
Test accuracy: 0.73
Mean accuracy: 0.734
Standard deviation: 0.012

Sensors: 1 and 12
Test accuracy: 0.754
Test accuracy: 0.774
Test accuracy: 0.757
Test accuracy: 0.769
Test accuracy: 0.752
Mean accuracy: 0.761
Standard deviation: 0.009

Sensors: 3 and 7
Test accuracy: 0.843
Test accuracy: 0.836
Test accuracy: 0.846
Test accuracy: 0.842
Test accuracy: 0.843
Mean accuracy: 0.842
Standard deviation: 0.003

Sensors: 8 and 1
Test accuracy: 0.692
Test accuracy: 0.701
Test accuracy: 0.671
Test accuracy: 0.699
Test accuracy: 0.693
Mean accuracy: 0.691
Standard deviation: 0.01

Sensors: 7 and 10
Test accuracy: 0.774
Test accuracy: 0.775
Test accuracy: 0.787
Test accuracy: 0.765
Test accuracy: 0.753
Mean accuracy: 0.771
Standard deviation: 0.011



ONLY 4 COMBINATIONS

Selected sensors: 1, 12, 11, 8

Test accuracy: 0.874
Test accuracy: 0.863
Test accuracy: 0.873
Test accuracy: 0.87
Test accuracy: 0.881
Mean accuracy: 0.872
Standard deviation: 0.006

Selected sensors: 3, 7, 8, 11

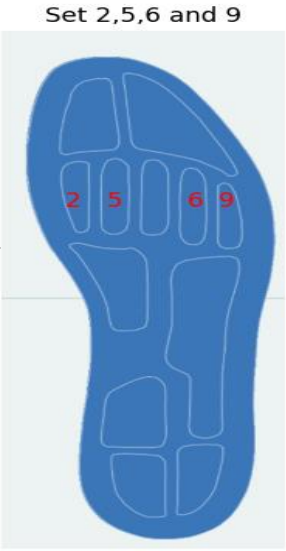
Test accuracy: 0.891
Test accuracy: 0.897
Test accuracy: 0.913
Test accuracy: 0.905
Test accuracy: 0.895
Mean accuracy: 0.9
Standard deviation: 0.008

Selected sensors: 1, 12, 3, 7

Test accuracy: 0.925
Test accuracy: 0.937
Test accuracy: 0.931
Test accuracy: 0.938
Test accuracy: 0.929
Mean accuracy: 0.932
Standard deviation: 0.005

Selected sensors: 2, 5, 6, 9

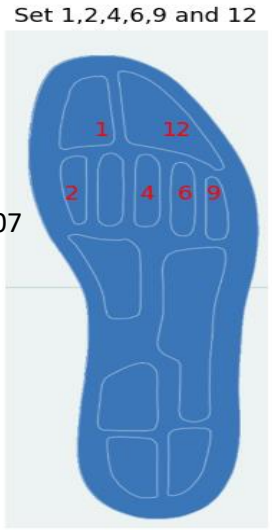
Test accuracy: 0.862
Test accuracy: 0.863
Test accuracy: 0.863
Test accuracy: 0.863
Test accuracy: 0.864
Mean accuracy: 0.863
Standard deviation: 0.001



ONLY 6 COMBINATIONS

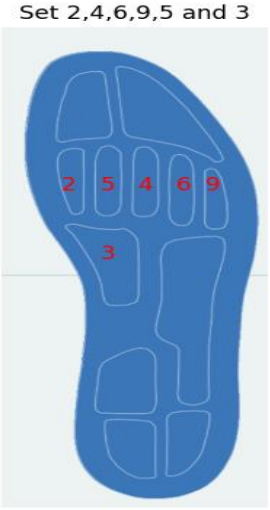
Selected sensors: 1, 2, 4, 6, 9, 12

Test accuracy: 0.921
Test accuracy: 0.936
Test accuracy: 0.923
Test accuracy: 0.916
Test accuracy: 0.926
Mean accuracy: 0.924
Standard deviation: 0.007



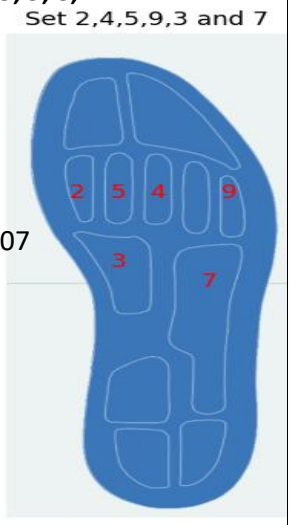
Selected sensors: 2, 4, 6, 5, 9, 3

Test accuracy: 0.929
Test accuracy: 0.941
Test accuracy: 0.939
Test accuracy: 0.937
Test accuracy: 0.934
Mean accuracy: 0.936
Standard deviation: 0.004



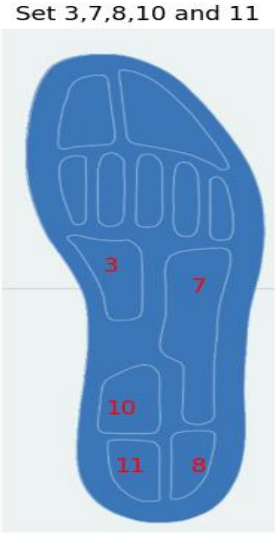
Selected sensors: 2, 4, 5, 9, 3, 7

Test accuracy: 0.945
Test accuracy: 0.937
Test accuracy: 0.954
Test accuracy: 0.937
Test accuracy: 0.939
Mean accuracy: 0.942
Standard deviation: 0.007



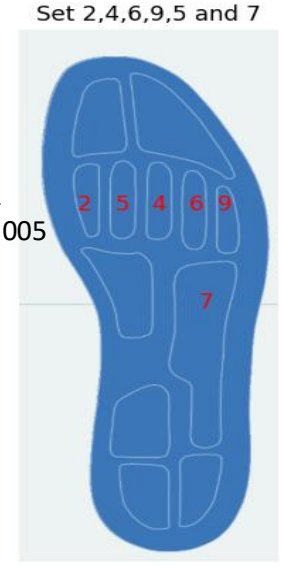
Selected sensors: 3, 7, 8, 10, 11

Test accuracy: 0.911
Test accuracy: 0.92
Test accuracy: 0.919
Test accuracy: 0.923
Test accuracy: 0.925
Mean accuracy: 0.919
Standard deviation: 0.005



Selected sensors: 2, 4, 6, 5, 9, 7

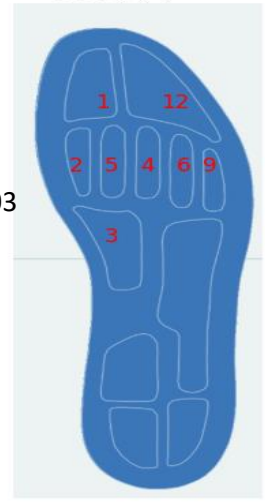
Test accuracy: 0.94
Test accuracy: 0.926
Test accuracy: 0.931
Test accuracy: 0.93
Test accuracy: 0.934
Mean accuracy: 0.932
Standard deviation: 0.005



ONLY 8 SENSORS COMBINATIONS

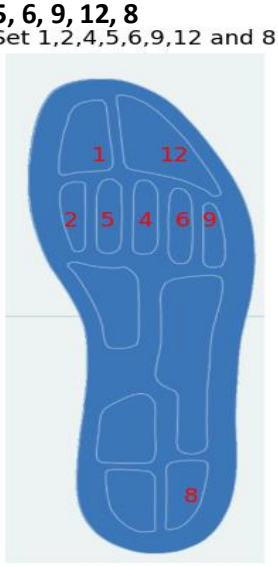
Selected sensors: 1, 2, 4, 5, 6, 9, 12, 3

Test accuracy: 0.958
Test accuracy: 0.953
Test accuracy: 0.951
Test accuracy: 0.953
Test accuracy: 0.95
Mean accuracy: 0.953
Standard deviation: 0.003



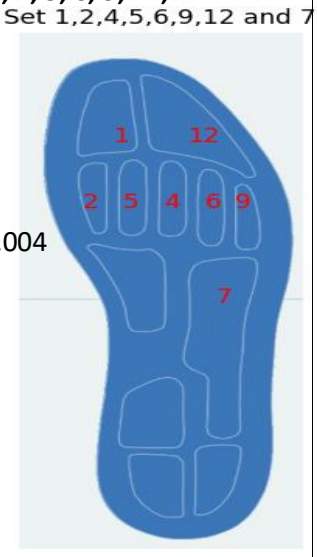
Selected sensors: 1, 2, 4, 5, 6, 9, 12, 8

Test accuracy: 0.949
Test accuracy: 0.958
Test accuracy: 0.955
Test accuracy: 0.949
Test accuracy: 0.953
Mean accuracy: 0.953
Standard deviation: 0.004



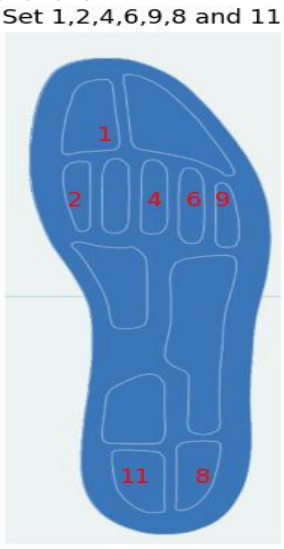
Selected sensors: 1, 2, 4, 5, 6, 9, 12, 7

Test accuracy: 0.949
Test accuracy: 0.943
Test accuracy: 0.954
Test accuracy: 0.95
Test accuracy: 0.954
Mean accuracy: 0.95
Standard deviation: 0.004



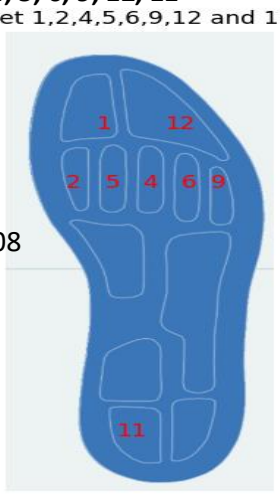
Selected sensors: 1, 2, 4, 5, 6, 9, 8, 11

Test accuracy: 0.937
Test accuracy: 0.946
Test accuracy: 0.944
Test accuracy: 0.945
Test accuracy: 0.944
Mean accuracy: 0.943
Standard deviation: 0.003



Selected sensors: 1, 2, 4, 5, 6, 9, 12, 11

Test accuracy: 0.955
Test accuracy: 0.943
Test accuracy: 0.957
Test accuracy: 0.951
Test accuracy: 0.937
Mean accuracy: 0.949
Standard deviation: 0.008

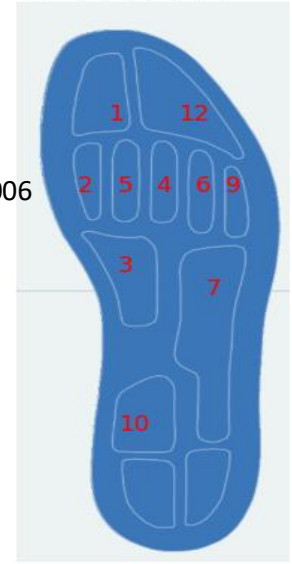


ONLY 10 SENSORS COMBINATIONS

Selected sensors: 1, 12, 2, 5, 4, 6, 9, 3, 7, 10

Test accuracy: 0.965
Test accuracy: 0.955
Test accuracy: 0.971
Test accuracy: 0.97
Test accuracy: 0.967
Mean accuracy: 0.966
Standard deviation: 0.006

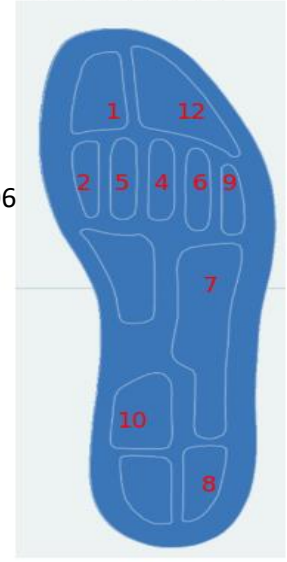
Set 1,12,2,5,4,6,9,3,7 and 10



Selected sensors: 1, 12, 2, 5, 4, 6, 9, 7, 8, 10

Test accuracy: 0.969
Test accuracy: 0.967
Test accuracy: 0.955
Test accuracy: 0.959
Test accuracy: 0.968
Mean accuracy: 0.964
Standard deviation: 0.006

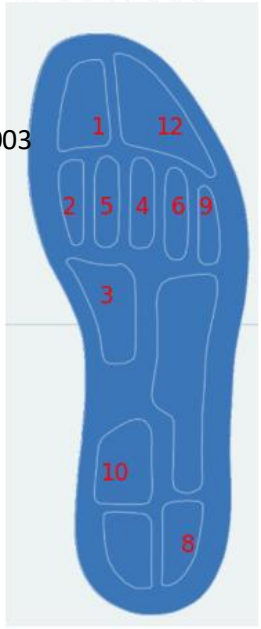
Set 1,12,2,5,4,6,9,7,8 and 10



Selected sensors: 1, 12, 2, 5, 4, 6, 9, 3, 8, 10

Test accuracy: 0.968
Test accuracy: 0.964
Test accuracy: 0.961
Test accuracy: 0.96
Test accuracy: 0.961
Mean accuracy: 0.963
Standard deviation: 0.003

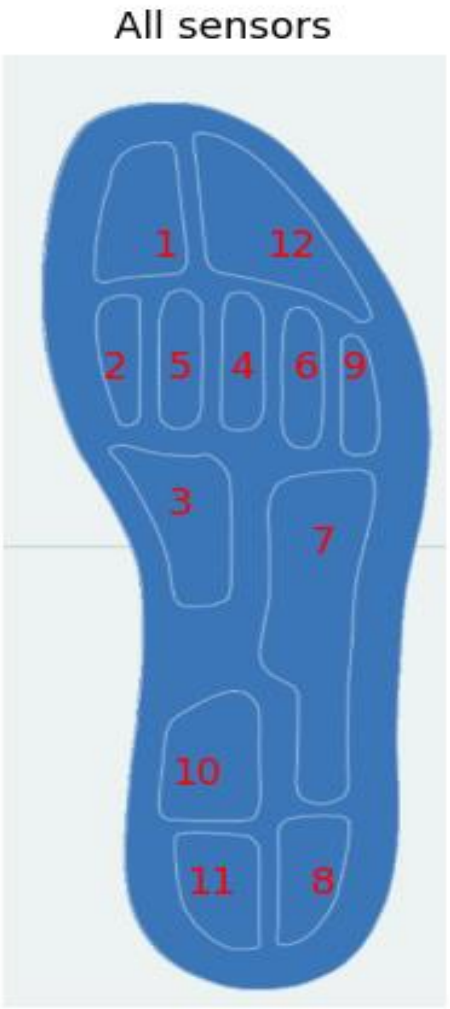
Set 1,12,2,5,4,6,9,3,8 and 10

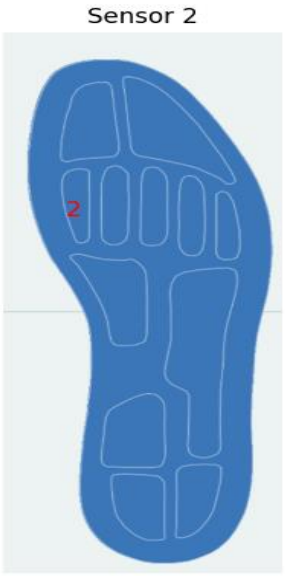


Selected sensors: 8, 11, 2, 5, 4, 6, 9, 3, 7, 10

Test accuracy: 0.961
Test accuracy: 0.957
Test accuracy: 0.967
Test accuracy: 0.957
Test accuracy: 0.961
Mean accuracy: 0.961
Standard deviation: 0.004

Set 8,11,2,5,4,6,9,3,7 and 10

ALL 12 SENSORS	
Test accuracy: 0.971 Test accuracy: 0.968 Test accuracy: 0.963 Test accuracy: 0.969 Test accuracy: 0.977 Mean accuracy: 0.97 Standard deviation: 0.005	

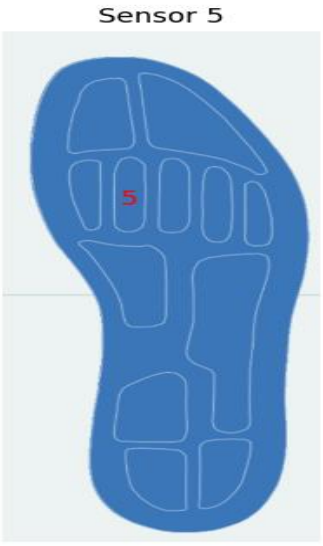
USE OF SINGLE SENSORS	
SENSOR 1 Test accuracy for sensor 1: 0.457 Test accuracy for sensor 1: 0.457 Test accuracy for sensor 1: 0.461 Test accuracy for sensor 1: 0.468 Test accuracy for sensor 1: 0.473 Mean accuracy for sensor 1: 0.463 Standard deviation for sensor 1: 0.007	
SENSOR 2 Test accuracy for sensor 2: 0.477 Test accuracy for sensor 2: 0.488 Test accuracy for sensor 2: 0.485 Test accuracy for sensor 2: 0.487 Test accuracy for sensor 2: 0.481 Mean accuracy for sensor 2: 0.484 Standard deviation for sensor 2: 0.004	
SENSOR 3 Test accuracy for sensor 3: 0.629 Test accuracy for sensor 3: 0.654 Test accuracy for sensor 3: 0.645 Test accuracy for sensor 3: 0.636 Test accuracy for sensor 3: 0.659 Mean accuracy for sensor 3: 0.645 Standard deviation for sensor 3: 0.011	

SENSOR 4

Test accuracy for sensor 4: 0.429
Test accuracy for sensor 4: 0.437
Test accuracy for sensor 4: 0.411
Test accuracy for sensor 4: 0.44
Test accuracy for sensor 4: 0.425
Mean accuracy for sensor 4: 0.428
Standard deviation for sensor 4: 0.01

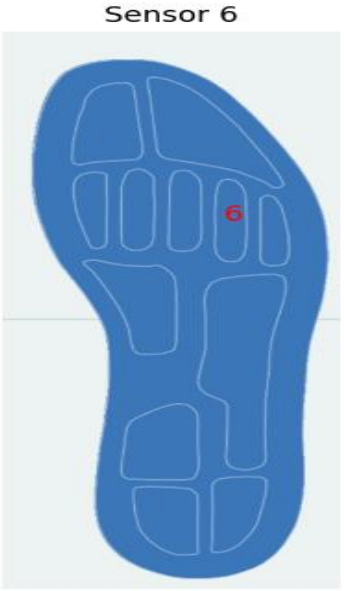
SENSOR 5

Test accuracy for sensor 5: 0.502
Test accuracy for sensor 5: 0.507
Test accuracy for sensor 5: 0.521
Test accuracy for sensor 5: 0.506
Test accuracy for sensor 5: 0.497
Mean accuracy for sensor 5: 0.507
Standard deviation for sensor 5: 0.008



SENSOR 6

Test accuracy for sensor 6: 0.448
Test accuracy for sensor 6: 0.441
Test accuracy for sensor 6: 0.453
Test accuracy for sensor 6: 0.45
Test accuracy for sensor 6: 0.443
Mean accuracy for sensor 6: 0.447
Standard deviation for sensor 6: 0.004

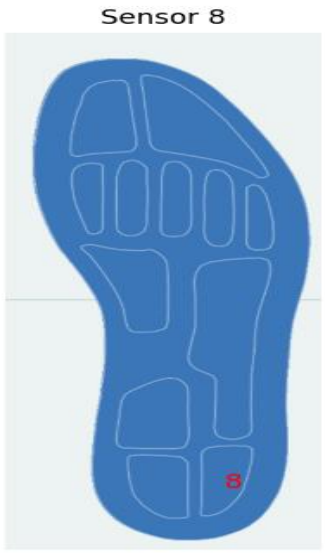


SENSOR 7

Test accuracy for sensor 7: 0.56
Test accuracy for sensor 7: 0.564
Test accuracy for sensor 7: 0.578
Test accuracy for sensor 7: 0.554
Test accuracy for sensor 7: 0.563
Mean accuracy for sensor 7: 0.564
Standard deviation for sensor 7: 0.008

SENSOR 8

Test accuracy for sensor 8: 0.405
Test accuracy for sensor 8: 0.433
Test accuracy for sensor 8: 0.429
Test accuracy for sensor 8: 0.418
Test accuracy for sensor 8: 0.394
Mean accuracy for sensor 8: 0.416
Standard deviation for sensor 8: 0.015

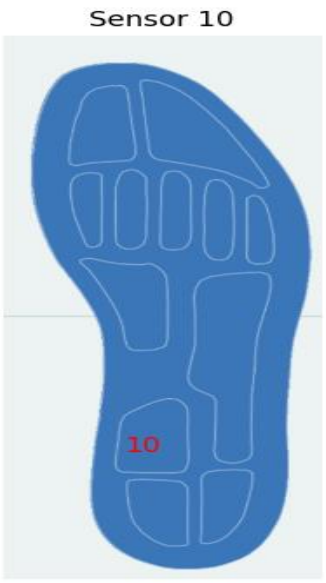


SENSOR 9

Test accuracy for sensor 9: 0.47
Test accuracy for sensor 9: 0.479
Test accuracy for sensor 9: 0.487
Test accuracy for sensor 9: 0.463
Test accuracy for sensor 9: 0.471
Mean accuracy for sensor 9: 0.474
Standard deviation for sensor 9: 0.008

SENSOR 10

Test accuracy for sensor 10: 0.473
Test accuracy for sensor 10: 0.47
Test accuracy for sensor 10: 0.473
Test accuracy for sensor 10: 0.477
Test accuracy for sensor 10: 0.475
Mean accuracy for sensor 10: 0.474
Standard deviation for sensor 10: 0.003

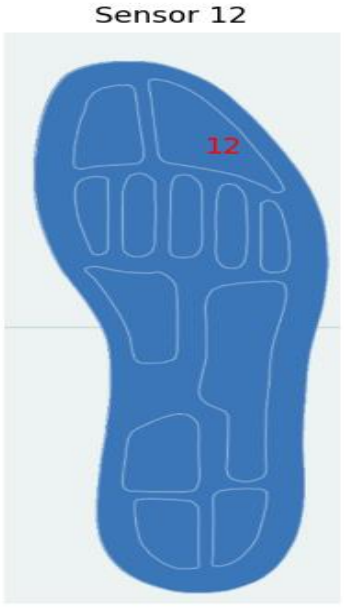


SENSOR11

Test accuracy for sensor 11: 0.457
Test accuracy for sensor 11: 0.449
Test accuracy for sensor 11: 0.466
Test accuracy for sensor 11: 0.436
Test accuracy for sensor 11: 0.473
Mean accuracy for sensor 11: 0.456
Standard deviation for sensor 11: 0.013

SENSOR 12

Test accuracy for sensor 12: 0.542
Test accuracy for sensor 12: 0.538
Test accuracy for sensor 12: 0.544
Test accuracy for sensor 12: 0.553
Test accuracy for sensor 12: 0.568
Mean accuracy for sensor 12: 0.549
Standard deviation for sensor 12: 0.011



Sensor with most importance with Gini importance: 5, 1,3 and 7

Test accuracy: 0.928

Test accuracy: 0.921

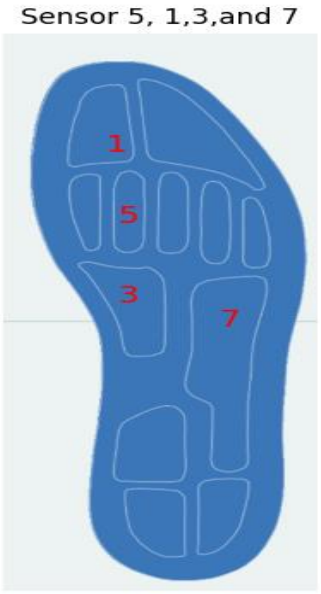
Test accuracy: 0.929

Test accuracy: 0.922

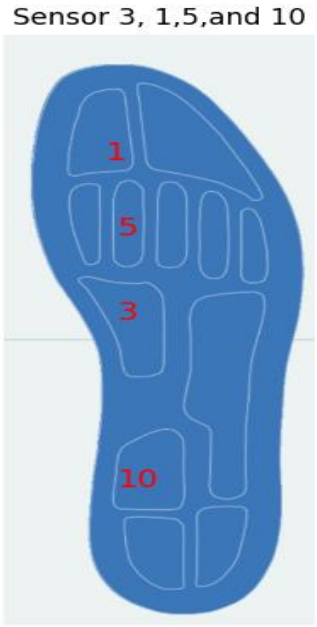
Test accuracy: 0.919

Mean accuracy: 0.924

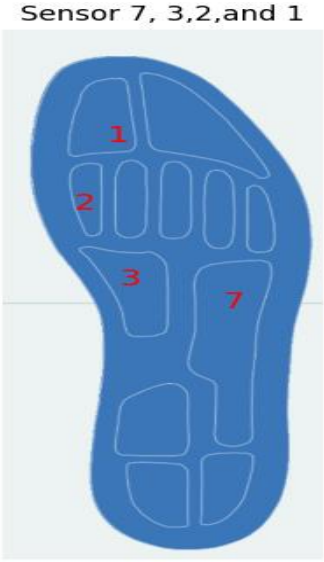
Standard deviation: 0.004



Sensor with most importance with feature permutation importance: 3,1,5,10



Sensor with most importance with Gradient Boosting Machines: 7,3,2,1



```
rocket = RocketClassifier(num_kernels=500)
```