List of selected features

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15635, 15724, 15735, 15745, 15767, 15774, 15776, 15818, 15820, 15834, 15835, 15847, 15886, 15889, 15896, 15952, 15953, 15980, 15993, 16010, 16011, 16020, 16024, 16033, 16083, 16114, 16120, 16125, 16136, 16167, 16189, 16231, 16247, 16266, 16267, 16276, 16289, 16311, 16317, 16329, 16346, 16350, 16351, 16364, 16365]

List of Constant Feaute (not Needed)

[ 41 144 283 284 297 321 365 565 732 824 825 839

1077 1100 1188 1255 1256 1259 1338 1363 1367 1399 1425 1430

1461 1619 1655 1743 1766 1891 1993 1994 2003 2031 2032 2224

2225 2231 2236 2248 2252 2409 2476 2691 2693 2698 2699 2733

2889 2903 3039 3048 3049 3076 3078 3079 3273 3284 3288 3425

3463 3895 3994 4036 4050 4051 4052 4135 4933 5009 5033 5242

5299 5371 5390 5418 5439 5606 5607 5609 5645 5648 5755 6030

6049 6051 6118 6125 6147 6323 6324 6825 6852 6855 6856 7207

7218 7357 7403 7420 7421 7440 7602 7800 7857 7858 7913 8000

8025 8107 8565 9029 9200 9305 9485 9621 9625 9666 9755 10262

10315 10458 10464 10502 10527 10528 10585 10605 10608 10668 10690 10958

10959 10962 10963 10964 10965 10966 10996 10999 11124 11125 11192 11372

11776 11905 12140 12144 12231 12585 12593 12628 12680 12709 12752 12820

12822 12829 13030 13032 13108 13189 13236 13297 13303 13304 13307 13322

13472 13608 13629 13667 13668 13746 13862 13866 13882 13905 13908 13909

13911 13912 13918 13963 13989 13996 13997 14006 14029 14122 14149 14490

14607 14618 14639 14760 14765 15189 15192 15202 15205 15209 15237 15259

15304 15328 15350 15460 15481 15538 15654 15887 15916 15938 15940 16142

16160 16198 16241 16315 16324]

After applying CNN on the most selected 1000 feature we get accuracy of 87.22

Model: "sequential"

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Layer (type) Output Shape Param #

=================================================================

reshape (Reshape) (None, 1000, 1) 0

conv1d (Conv1D) (None, 998, 32) 128

max\_pooling1d (MaxPooling1 (None, 499, 32) 0

D)

conv1d\_1 (Conv1D) (None, 497, 64) 6208

max\_pooling1d\_1 (MaxPoolin (None, 248, 64) 0

g1D)

flatten (Flatten) (None, 15872) 0

dense (Dense) (None, 128) 2031744

dense\_1 (Dense) (None, 1) 129

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Total params: 2038209 (7.78 MB)

Trainable params: 2038209 (7.78 MB)

Non-trainable params: 0 (0.00 Byte)

A diagram of a computer

Description automatically generated