

Result analysis

1. When removal impact of remaining words = 1

removal impact list: 3196 words

[illegible]

Unique removal impact list: 338 unique words

A screenshot of a terminal window on a Linux system. The terminal title is "Terminal". The user is logged in as "shweta@slrlus" and is in the directory "~/work/MNF_work/papers". The script being executed is a Python program that processes a list of words and their importance scores. The script starts by defining a list of words and their importance scores. It then sorts the list by importance score in descending order. The sorted list is printed to the terminal. The output shows the words and their importance scores, sorted by importance. The words are: "unique", "removal", "impact", "list", "1", "7603", "1244", "2078", "2387", "2913", "3908", "4161", "4212", "4313", "4592", "4719", "5018", "5294", "5325", "5358", "6090", "6233", "63", "09", "6448", "6547", "6553", "6636", "6665", "6755", "6762", "6766", "6819", "6883", "6934", "7038", "7149", "7288", "7470", "7640", "7767", "7", "815", "7868", "8045", "8079", "8396", "8493", "8500", "8502", "8578", "8682", "8752", "8853", "8990", "8996", "9047", "9059", "9062", "9064", "9112", "9159", "9163", "9212", "9237", "9305", "9417", "9448", "9451", "9454", "9463", "9482", "9504", "9509", "9723", "9765", "9815", "9832", "9854", "9902", "10125", "10158", "10225", "10258", "10286", "10344", "10385", "10435", "10478", "10517", "10539", "10637", "10658", "108", "69", "10936", "10978", "11089", "11136", "11179", "11287", "11299", "11382", "11476", "11483", "11499", "11561", "11650", "11707", "11726", "11751", "11804", "11812", "11860", "11870", "11902", "12348", "12352", "12404", "12552", "12582", "12615", "12663", "12673", "12702", "12801", "12850", "12874", "12896", "12900", "12932", "12995", "13013", "13102", "13194", "13217", "13231", "13270", "13271", "13356", "13", "358", "13388", "13469", "13508", "13533", "13549", "13806", "13846", "13864", "14072", "14105", "14135", "14167", "14243", "14250", "1429", "9", "14393", "14481", "14519", "14542", "14597", "14655", "14666", "14667", "14684", "14725", "14756", "14799", "14805", "14812", "14826", "14853", "14876", "14988", "14997", "14999", "15086", "15091", "15095", "15102", "15167", "15203", "15252", "15376", "15429", "15443", "1", "5482", "15577", "15614", "15799", "15812", "15838", "15922", "15935", "15951", "16017", "16074", "16075", "16151", "16202", "16268", "164", "29", "16437", "16453", "16514", "16545", "16555", "16565", "16696", "16706", "16800", "16991", "17077", "17143", "17172", "17241", "17454", "17", "17507", "17564", "17703", "17775", "17789", "17797", "17834", "18044", "18082", "18088", "18229", "18257", "18538", "18764", "18808", "18860", "18918", "18926", "19027", "19109", "19127", "19157", "19161", "19282", "19300", "19443", "19456", "19634", "19640", "19794", "20", "077", "20085", "20105", "20142", "20162", "20576", "20634", "20784", "20874", "21017", "21097", "21179", "21372", "21478", "21503", "2158", "540", "0", "21637", "21856", "22078", "22092", "22201", "22272", "22298", "22379", "22427", "22438", "22539", "22725", "22835", "22855", "22977", "541", "23107", "23150", "23342", "23426", "23544", "23590", "23593", "23762", "23850", "23985", "24126", "24177", "24365", "24423", "24428", "2", "542", "0740", "25115", "25188", "25270", "25339", "25359", "25882", "26155", "26179", "26380", "26395", "26482", "26807", "27035", "27214", "276", "543", "06", "27608", "27620", "27820", "27835", "27919", "28162", "28251", "28473", "28484", "28702", "28950", "29090", "29133", "29460", "29521", "544", "0", "29742", "30097", "30227", "30251", "30396", "30518", "31194", "31746", "31842", "31884", "31964", "32165", "33140", "33609", "34329", "545", "0", "34586", "34895", "34941", "35246", "35815", "35954", "36408", "37159", "37218", "37332", "37536", "38212", "39027", "40315", "41604", "41", "546", "0", "4800", "41998", "42116", "42901", "43442", "43541", "43852", "45105", "45950", "46304", "46672", "47642", "48490", "51173", "51260", "5111", "547", "0", "56923", "59306", "61318", "64298", "65819", "67671", "68354", "69795", "76928", "79310", "84690", "88187", "88834", "90113", "164428", "548", "0", "174481", "176447", "297848", "348365", "367326", "454400", "762285", "991133", "992823", "1317866", "549", "0", "a", "len of r_priority": "3196", "550", "0", "r_priority_list": "[3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 3", "551", "0", "2, 33, 34, 35, 36, 39, 40, 41, 42, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 61, 62, 63, 65, ", "552", "0", "66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 88, 89, 90, 91, 92, 94, 95, ", "553", "0", "99, 101, 102, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 116, 118, 119, 120, 122, 123, 124, 125, 12", "554", "0", "7, 128, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 141, 142, 143, 144, 145, 147, 148, 149, 151, 152, ", "555", "0", "153, 154, 155, 156, 157, 158, 159, 161, 162, 163, 165, 166, 167, 168, 169, 171, 172, 173, 175, 176, 177, 1", "556", "0", "79, 182, 183, 184, 185, 186, 187, 188, 189, 192, 193, 194, 195, 196, 197, 200, 201, 202, 204, 205, 206, 207", "557", "0", "208, 209, 210, 211, 212, 213, 214, 216, 218, 219, 220, 221, 222, 223, 225, 226, 227, 228, 229, 230, 231, ", "558", "0", "# for each word in words:", "559", "0", "# print('word=', each_word)", "560", "0", "# print(' word=', each_word['word'], 'importance=', each_word['importance'])"]

r_priority list : 3196

```
Terminal
shweta@sirius: ~/work/MNF_work/papers
6, 56923, 59306, 61318, 64298, 65819, 67671, 68354, 69795, 76928, 79310, 84690, 88187, 88834, 90113, 164428
174481, 176447, 297848, 348365, 367326, 454400, 762285, 991133, 992823, 1317866]
len of r_priority: 3196
r_priority_list: [3, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 3
2, 33, 34, 35, 36, 39, 40, 41, 42, 44, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 61, 62, 63, 65,
66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 85, 86, 88, 89, 90, 91, 92, 94, 95,
99, 101, 102, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 116, 118, 119, 120, 122, 123, 124, 125, 12
7, 128, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 141, 142, 143, 144, 145, 147, 148, 149, 151, 152,
153, 154, 155, 156, 157, 158, 159, 161, 162, 163, 165, 166, 167, 168, 169, 171, 172, 173, 175, 176, 177, 1
79, 182, 183, 184, 185, 186, 187, 188, 189, 192, 193, 194, 195, 196, 197, 200, 201, 202, 204, 205, 206, 207
208, 209, 210, 211, 212, 213, 214, 216, 218, 219, 220, 221, 222, 223, 225, 226, 227, 228, 229, 230, 231,
232, 233, 234, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 25
4, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 267, 268, 270, 271, 273, 274, 275, 276, 277, 278,
279, 280, 281, 282, 283, 284, 285, 286, 288, 289, 290, 292, 293, 294, 295, 296, 297, 299, 300, 301, 303, 3
04, 306, 307, 308, 309, 310, 311, 312, 314, 316, 317, 318, 320, 321, 323, 324, 326, 327, 330, 331, 332, 333
334, 335, 336, 337, 339, 341, 342, 343, 344, 346, 347, 348, 349, 351, 352, 353, 354, 357, 358, 359, 360,
361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 374, 375, 376, 377, 379, 380, 381, 382, 383, 38
4, 385, 386, 388, 389, 390, 391, 392, 393, 395, 396, 397, 399, 401, 402, 403, 404, 405, 406, 407, 408, 409,
410, 412, 414, 416, 417, 418, 419, 421, 422, 424, 426, 427, 429, 432, 434, 435, 436, 437, 439, 440, 441, 4
43, 444, 445, 446, 447, 448, 449, 450, 451, 453, 454, 455, 456, 457, 459, 460, 461, 462, 464, 466, 467, 468
469, 470, 472, 473, 474, 475, 477, 478, 479, 482, 483, 484, 485, 486, 487, 488, 490, 491, 492, 493, 494,
496, 497, 498, 499, 500, 501, 503, 504, 505, 506, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 51
9, 520, 521, 522, 523, 525, 526, 527, 528, 531, 532, 533, 534, 535, 536, 538, 541, 543, 544, 546, 547, 548,
550, 551, 552, 554, 556, 557, 558, 559, 560, 561, 562, 564, 566, 567, 568, 569, 572, 573, 574, 575, 577, 5
79, 582, 583, 584, 585, 586, 587, 589, 590, 591, 592, 593, 594, 596, 597, 598, 599, 600, 601, 602, 603, 604
th, 605, 606, 607, 608, 609, 610, 612, 613, 615, 616, 617, 619, 620, 621, 623, 624, 625, 626, 627, 631, 633,
r 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 648, 649, 650, 651, 652, 653, 654, 655, 65
a 6, 658, 659, 660, 661, 662, 663, 665, 666, 667, 669, 671, 672, 673, 674, 675, 676, 677, 678, 680, 681, 682,
683, 685, 686, 687, 689, 691, 694, 695, 696, 697, 698, 700, 701, 703, 704, 705, 706, 708, 709, 710, 712, 7
13, 714, 715, 716, 717, 718, 720, 721, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737
738, 740, 741, 742, 743, 744, 745, 747, 748, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 761, 762,
763, 765, 766, 767, 768, 769, 772, 773, 774, 776, 777, 779, 780, 781, 782, 783, 786, 787, 788, 789, 790, 79
1, 792, 794, 795, 797, 798, 800, 801, 802, 803, 805, 806, 807, 808, 809, 811, 812, 813, 814, 815, 817, 818,
819, 820, 821, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 836, 837, 838, 841, 842, 843, 844, 845, 8
48, 849, 850, 852, 853, 856, 857, 859, 860, 861, 862, 863, 864, 865, 867, 868, 869, 872, 873, 874, 876, 877
878, 880, 881, 882, 883, 884, 885, 886, 887, 888, 890, 891, 892, 893, 894, 895, 896, 898, 899, 900, 901,
one'] )
print("word=", each word)
print("word=", each_word['word'], "importance=", each_word['importance'])
560
```

2. When removal impact of remaining words = word importance of the word

removal impact list: 3196 words

```
Terminal
shweta@sirius: ~/work/MNF_work/papers
WORDS HAVE BEEN ASSIGNED IMPORTANCE AND ADDRESS
redu= 0.19999999999999999
LINE 292 threshold in fnc value and count = 732 639
threshold value 732
Number of words below threshold value 639
Number of words above threshold value 557
LINE 311 threshold removal_impact in fnc value : and count = 915 639
len of removal_impact list: 3196
removal_impact list: [184067, 184067, 130, 9032, 9032, 1335, 3568, 867, 909, 654, 3338, 2337, 515,
2698, 15126, 15126, 1621, 545, 25166, 1002, 2666, 25166, 2116, 296, 2964, 645, 3211, 3608, 2833, 3665, 199
9, 1542, 1695, 1181, 3641, 1775, 52843, 52843, 3439, 3638, 2048, 376, 52843, 913, 52843, 2003, 3523, 464, 3
203, 2283, 2306, 3175, 820, 1349, 918, 3590, 487, 2407, 42817, 42817, 522, 3311, 2399, 42817, 399, 2828, 20
58, 1415, 3080, 3244, 1268, 1495, 3336, 2756, 349, 1859, 3651, 2253, 760, 1224, 12034, 1805, 1746, 1296, 34
02, 3325, 20170, 1119, 1734, 2896, 49, 67, 20170, 1000, 474, 978187, 978187, 978187, 2076, 14954, 852, 278,
14954, 1024, 1660, 3019, 247, 355, 3242, 2760, 172, 475, 1877, 15994, 15994, 608, 15994, 3113, 2591, 1501,
48280, 2518, 1565, 3110, 2523, 48280, 3677, 2601, 48280, 1894, 1205, 731, 230, 1031, 3431, 429, 2792, 3194
2693, 48280, 2329, 2068, 171, 1084, 1587, 29193, 2700, 547, 1876, 29193, 2549, 2543, 197, 3460, 3671, 103
4, 757, 3035, 2037, 11766, 134, 1723, 3193, 11766, 195, 158, 2009, 422, 1216, 4427, 2755, 3682, 1512, 15395
5, 2267, 773, 3515, 153955, 317, 153955, 153955, 2874, 1263, 163, 1702, 109, 1442, 2747, 2773, 153955, 1539
55, 1692, 3141, 881, 1271, 3091, 2768, 153955, 153955, 249, 2652, 2024, 153955, 2924, 190, 2688, 312, 260,
2222, 536, 868, 3023, 979, 901, 153955, 630, 153955, 1803, 224, 2249, 3008, 367, 1013, 153955, 1562, 649, 2
551, 110, 1266, 1446, 528, 2456, 1195, 1572, 153955, 3701, 393, 831, 3430, 2025, 3045, 1468, 2587, 1735, 14
44, 2568, 888, 3655, 3564, 1252, 2533, 2100, 2196, 2540, 189, 1166, 3468, 2065, 1790, 2051, 1455, 3106, 127
6, 2315, 1480, 17598, 1420, 1537, 17707, 2310, 1743, 17707, 2844, 3356, 793, 494, 1652, 1430, 620, 2640, 21
60, 423, 471, 3168, 430, 300, 18511, 3379, 2258, 1168, 18511, 318, 2561, 2352, 1851, 3069, 1689, 22539, 327
4, 2672, 3137, 22539, 1883, 577, 22539, 834, 1502, 1054, 428, 1728, 1091, 2438, 67026, 1613, 35101, 1424, 3
199, 1353, 35101, 3337, 3397, 35101, 3362, 116, 35101, 46, 1506, 35101, 35101, 2975, 1203, 866, 91, 1231, 5
11, 3147, 3521, 20598, 2281, 20598, 3661, 2209, 88, 194, 8039, 1399, 512, 2098, 1277, 54085, 3155, 2273, 30
74, 3614, 38252, 38252, 2928, 1559, 2649, 3053, 2208, 23, 2363, 2920, 3487, 2353, 1769, 1098, 578, 2140, 34
20, 2341, 26959, 1739, 797, 2725, 2496, 19869, 1891, 446, 2272, 2812, 3656, 1489, 2566, 1946, 21786, 3592,
690, 2970, 2154, 114, 1379, 20311, 594, 2734, 2690, 17039, 42, 10859, 2592, 619, 1246, 1288, 1253, 2087, 35
52, 200, 513, 1612, 16143, 3692, 15472, 268, 15472, 3506, 680, 2825, 3092, 17525, 78, 1543, 15485, 3000, 15
485, 3438, 3151, 100164, 1832, 34854, 34854, 1756, 34854, 858, 2449, 3304, 629, 34854, 2781, 2956, 1345, 34
854, 1128, 3139, 3415, 1766, 2344, 1274, 1437, 1912, 1709, 21026, 3611, 1850, 1473, 2234, 3102, 21026, 3565
3273, 1927, 746, 22292, 1997, 22292, 1781, 3087, 2247, 1853, 1197, 12820, 3458, 2200, 3449, 1467, 25401,
def assign_word_removal_impact():
515
```


Unique removal impact list: 2969 words

r_priority list : 3196 words

[illegible]

By assigning the removal impact as the word importance, we are getting removal impact values ranging from 3 to 1317841, this is because our word importance values are unique.