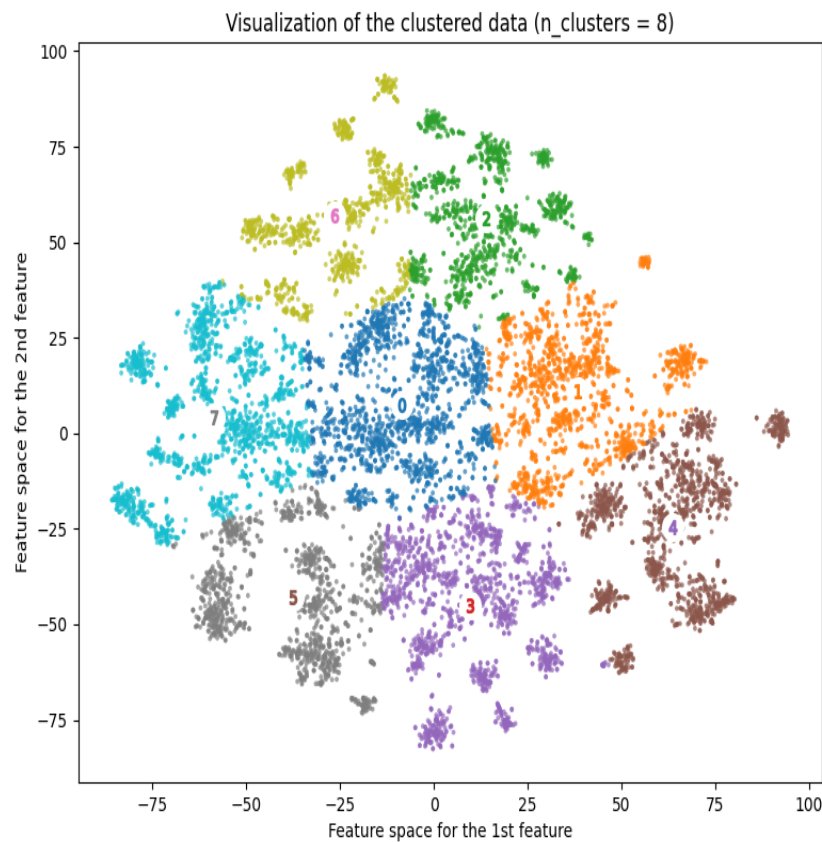


Alternative with 8 clusters:



Cluster 0:

cell 2773
technology 2038
model 1919
disease 1441
proposed 1324
virus 1262
potential 1251
phase 1194
small 1143
device 1136
provide 1134
patient 1127
innovation 1018
design 1012
used 1004
novel 1003
method 987
approach 986

business 949

process 949

Cluster 1:

social 2408

community 2118

network 2042

health 1244

model 1194

public 1180

information 1089

policy 1046

understanding 995

work 987

pandemic 978

group 964

change 954

provide 927

risk 919

behavior 904

researcher 870

workshop 857

analysis 841

individual 838

Cluster 2:

specie 2010

plant 1988

change 1632

community 1304

understanding 1152

protein 1077

gene 1071

model 1035

ecosystem 998

soil 984

process 903

environmental 902

provide 880

training 838

environment 832

undergraduate 815

population 796

approach 775

food 738

interaction 730

Cluster 3:

learning 2785

model 2314
application 1764
algorithm 1590
network 1415
design 1412
computing 1353
technology 1317
machine 1296
user 1149
method 1142
technique 1136
language 1125
problem 1094
information 1092
software 1080
human 1069
ai 1036
approach 1018
tool 1007

Cluster 4:

stem 5508
learning 3653
education 3089
teacher 2688
engineering 2238
school 1885
community 1857
university 1653
faculty 1614
practice 1551
undergraduate 1526
experience 1502
college 1404
career 1396
course 1349
technology 1330
field 1291
conference 1281
professional 1249
knowledge 1193

Cluster 5:

quantum 3303
theory 1865
model 1670
problem 1658
physic 1317

method 1300
pi 1201
energy 1142
application 1113
group 1044
material 1039
structure 974
field 960
flow 918
understanding 893
property 869
equation 865
analysis 848
geometry 804
goal 787

Cluster 6:

water 2135
model 1564
ocean 1492
change 1264
climate 1231
process 1126
understanding 1091
earth 917
carbon 876
provide 835
ice 809
community 791
used 767
arctic 724
earthquake 719
surface 696
result 686
global 685
work 650
membrane 643

Cluster 7:

material 4636
property 1771
process 1605
structure 1522
energy 1478
chemical 1459
understanding 1374
high 1226
used 1203

field 1195
model 1187
design 1166
chemistry 1162
undergraduate 1150
application 1147
polymer 1123
university 1109
manufacturing 1056
fundamental 1045
metal 987