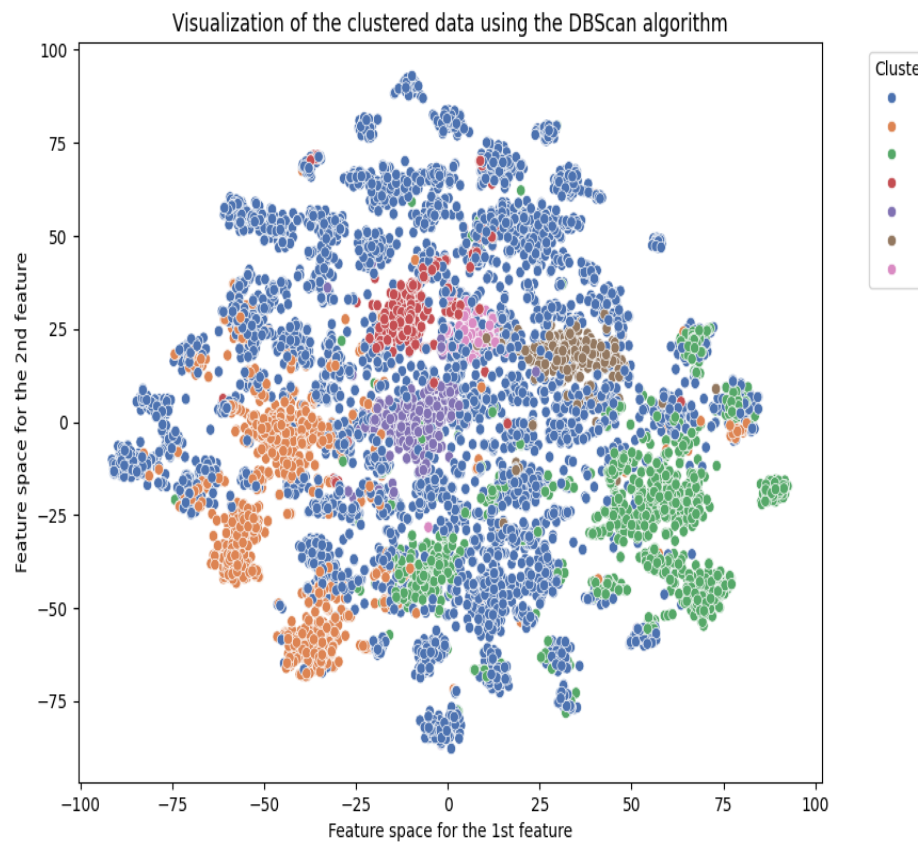


Clusters created by the DBScan algorithm



Cluster -1:

community 4967
understanding 4873
process 4527
change 4393
technology 4388
provide 4291
network 3922
work 3912
method 3813
approach 3562
result 3530
water 3430
design 3378
field 3373
application 3362
including 3286
analysis 3269
activity 3256

undergraduate 3196
researcher 3143

Cluster 0:

material 5339
quantum 3518
theory 1977
property 1956
structure 1613
application 1455
problem 1337
group 1235
field 1204
pi 1187
understanding 1184
method 1133
fundamental 1130
physic 1124
energy 1121
design 1006
state 1002
device 976
technology 970
graduate 944

Cluster 1:

stem 5785
learning 5179
education 3193
teacher 2702
engineering 2325
community 2191
undergraduate 1901
school 1886
experience 1784
university 1741
faculty 1732
practice 1648
career 1540
professional 1465
college 1455
course 1447
knowledge 1425
provide 1398
field 1392
technology 1362

Cluster 2:

cell 2970

protein 876
function 441
cellular 430
tissue 430
understanding 381
process 359
biology 348
mechanism 344
provide 336
gene 331
human 317
biological 302
molecular 301
undergraduate 283
structure 278
interaction 269
stem 267
approach 266
method 265

Cluster 3:

phase 902
small 800
business 766
innovation 762
sbir 700
technology 607
patient 486
proposed 477
potential 449
broader 423
cost 342
device 301
treatment 238
solution 231
advance 224
novel 218
application 210
process 209
enable 195
health 184

Cluster 4:

social 1691
health 905
pandemic 799
public 728
policy 543

- risk 494
- behavior 492
- response 491
- community 459
- information 438
- people 413
- individual 398
- survey 382
- change 347
- time 346
- state 308
- understanding 306
- economic 288
- crisis 285
- effect 282

Cluster 5:

- virus 671
- disease 306
- transmission 256
- spread 249
- infection 237
- coronavirus 226
- viral 224
- pandemic 175
- rapid 175
- public 157
- provide 149
- health 146
- outbreak 144
- human 141
- understanding 132
- testing 130
- result 125
- novel 116
- approach 111
- surface 110