3	1	1	1	0	2	0
2	0	1	1	1	0	0
1	2	0	1	1	1	1
4	3	0	1	1	0	0
3	0	1	1	0	2	4
0	1	1	0	4	0	5
1	1	0	0	5	0	0

0	1	0	1	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	1	1
0	0	0	0	1	0	0
0	0	0	1	0	0	0
0	0	0	1	0	0	0
1	1	0	0	0	0	0

2D dense matrix

2D sparse matrix

Illustrative comparison of a 2D dense matrix and a 2D sparse matrix. The dense matrix predominantly features non-zero elements, whereas the sparse matrix consists mainly of zero values with a few non-zero entries scattered throughout. Such distinctions highlight the storage and computational differences between the two matrix types.