2D-visualization of fashion MNIST dataset
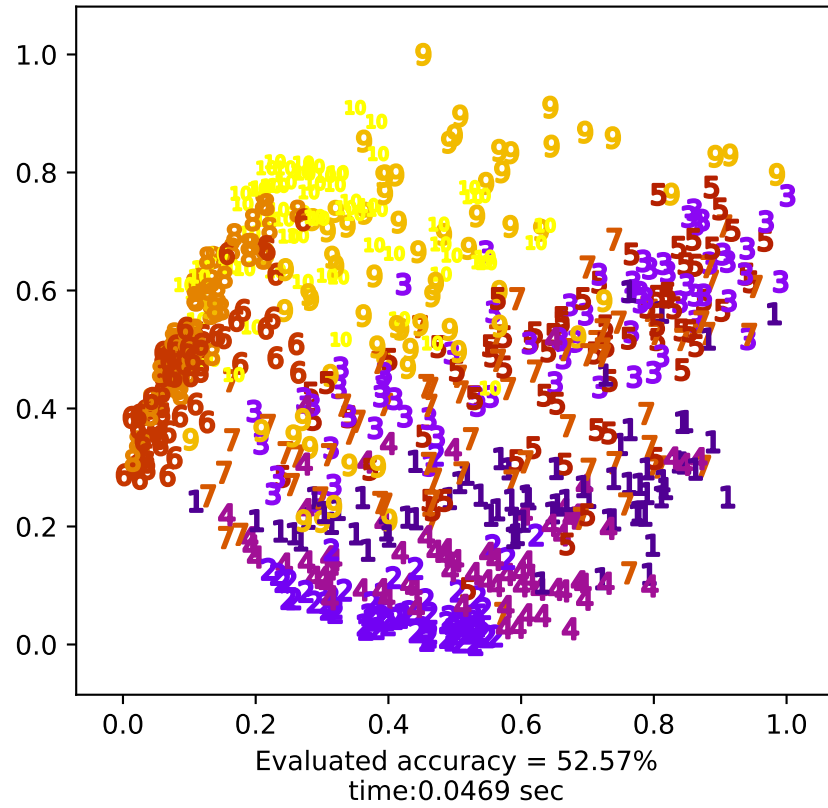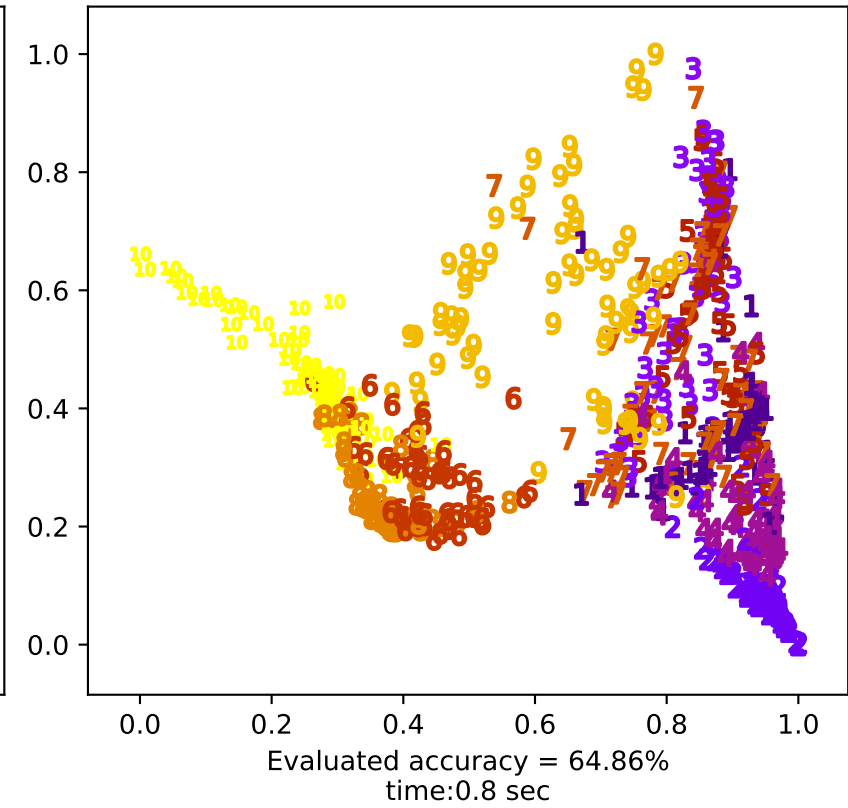

PCA
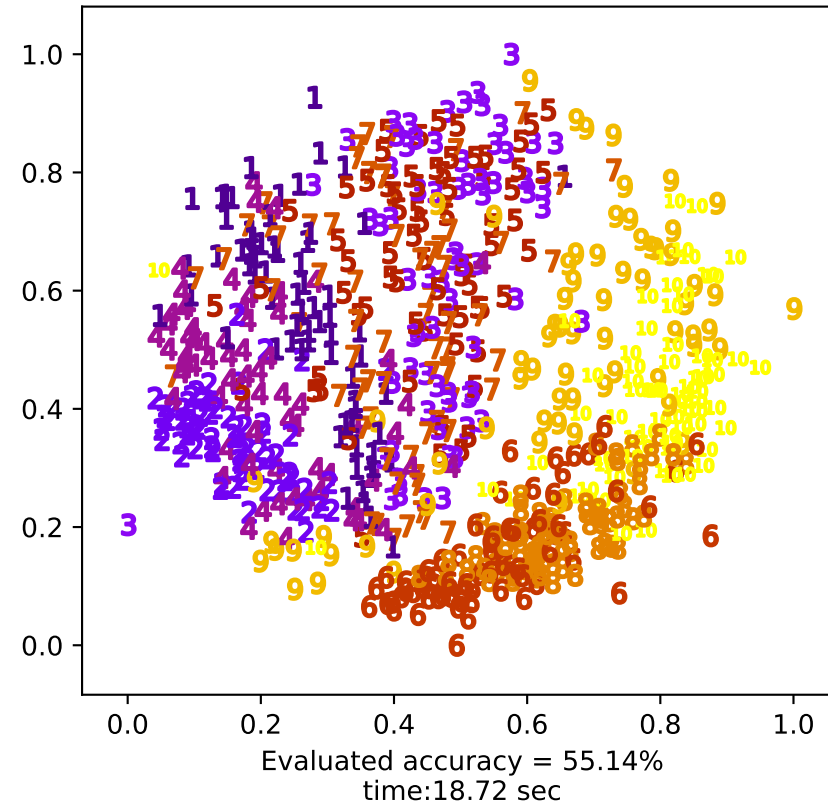
Evaluated accuracy = 52.57%
time:0.0469 sec

MDS

Evaluated accuracy = 55.14%
time:18.72 sec

LLE

Evaluated accuracy = 64.86%
time:0.8 sec

ISOMAP

Evaluated accuracy = 60.71%
time:0.9375 sec

T-SNE

Evaluated accuracy = 69.43%
time:6.02 sec

UMAP

Evaluated accuracy = 66.43%
time:1.73 sec

Legend:
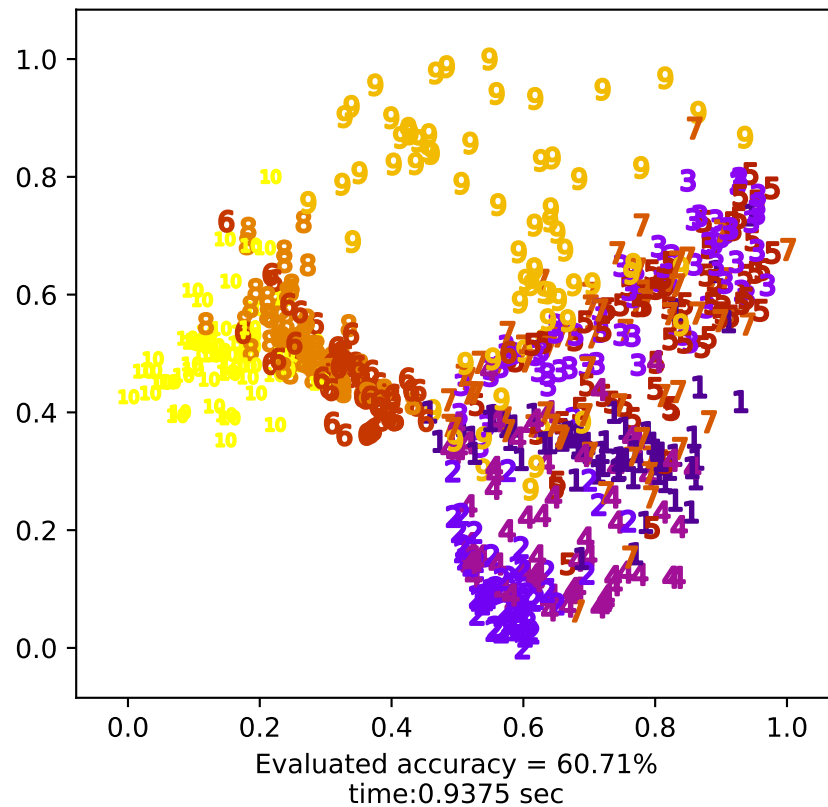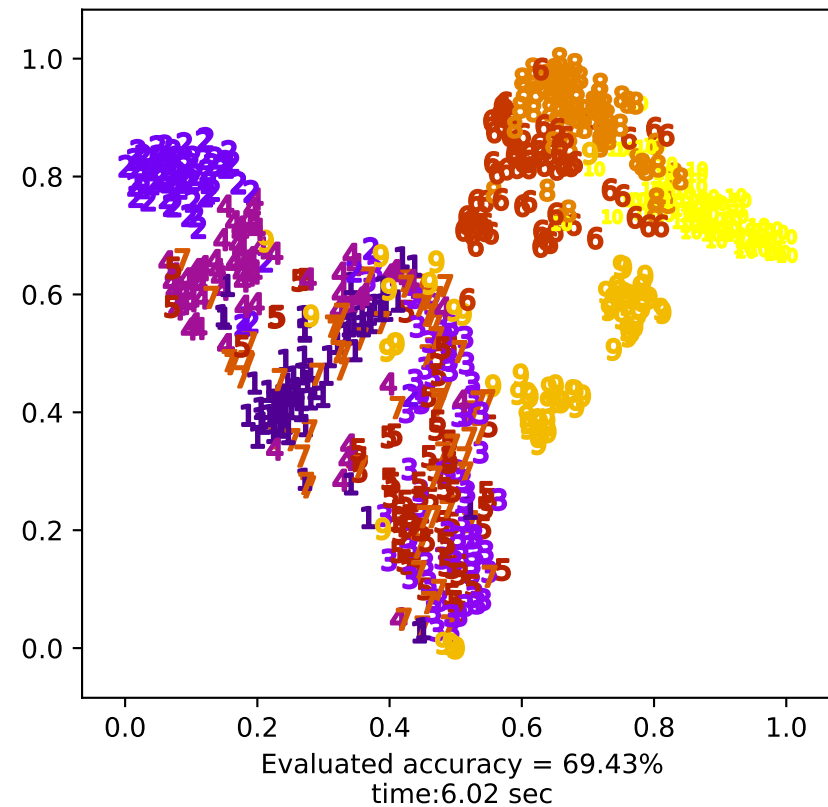1 t-shirt
2 trouser
3 pullover
4 dress
5 coat
6 sandal
7 shirt
8 sneaker
9 bag
10 ankle boot

fashion MNIST dataset with images for PCA (1/6)

1	t-shirt
2	trouser
3	pullover
4	dress
5	coat
6	sandal
7	shirt
8	sneaker
9	bag
10	ankle boot

Evaluated accuracy = 52.57%

time:0.05 sec

fashion MNIST dataset with images for MDS (2/6)

1	t-shirt
2	trouser
3	pullover
4	dress
5	coat
6	sandal
7	shirt
8	sneaker
9	bag
10	ankle boot

Evaluated accuracy = 55.14%
time:18.72 sec

fashion MNIST dataset with images for LLE (3/6)

1	t-shirt
2	trouser
3	pullover
4	dress
5	coat
6	sandal
7	shirt
8	sneaker
9	bag
10	ankle boot

Evaluated accuracy = 64.86%
time:0.8 sec
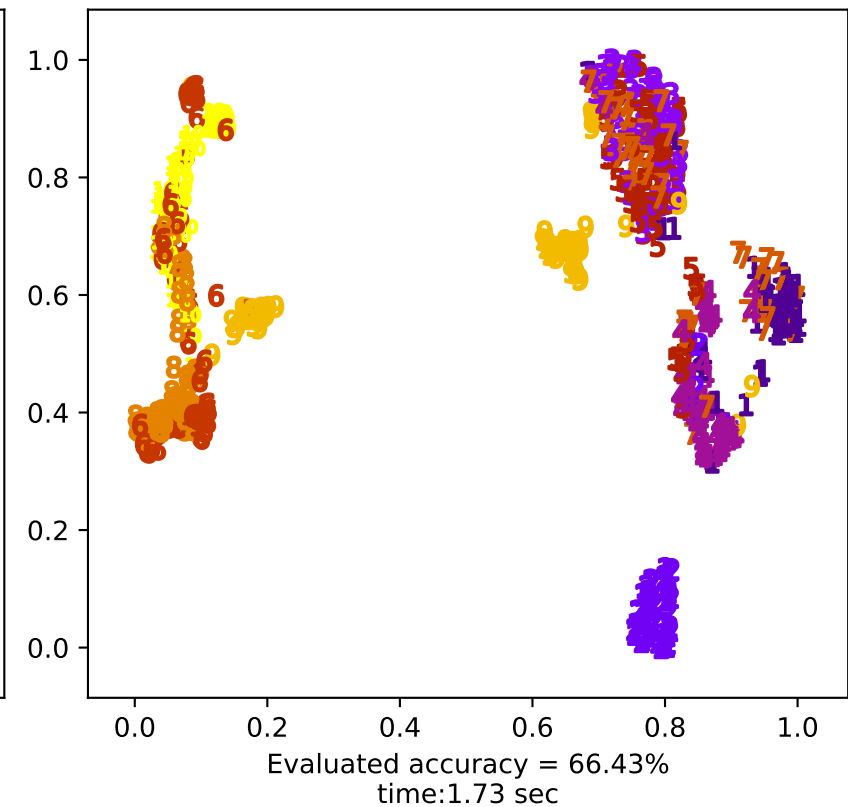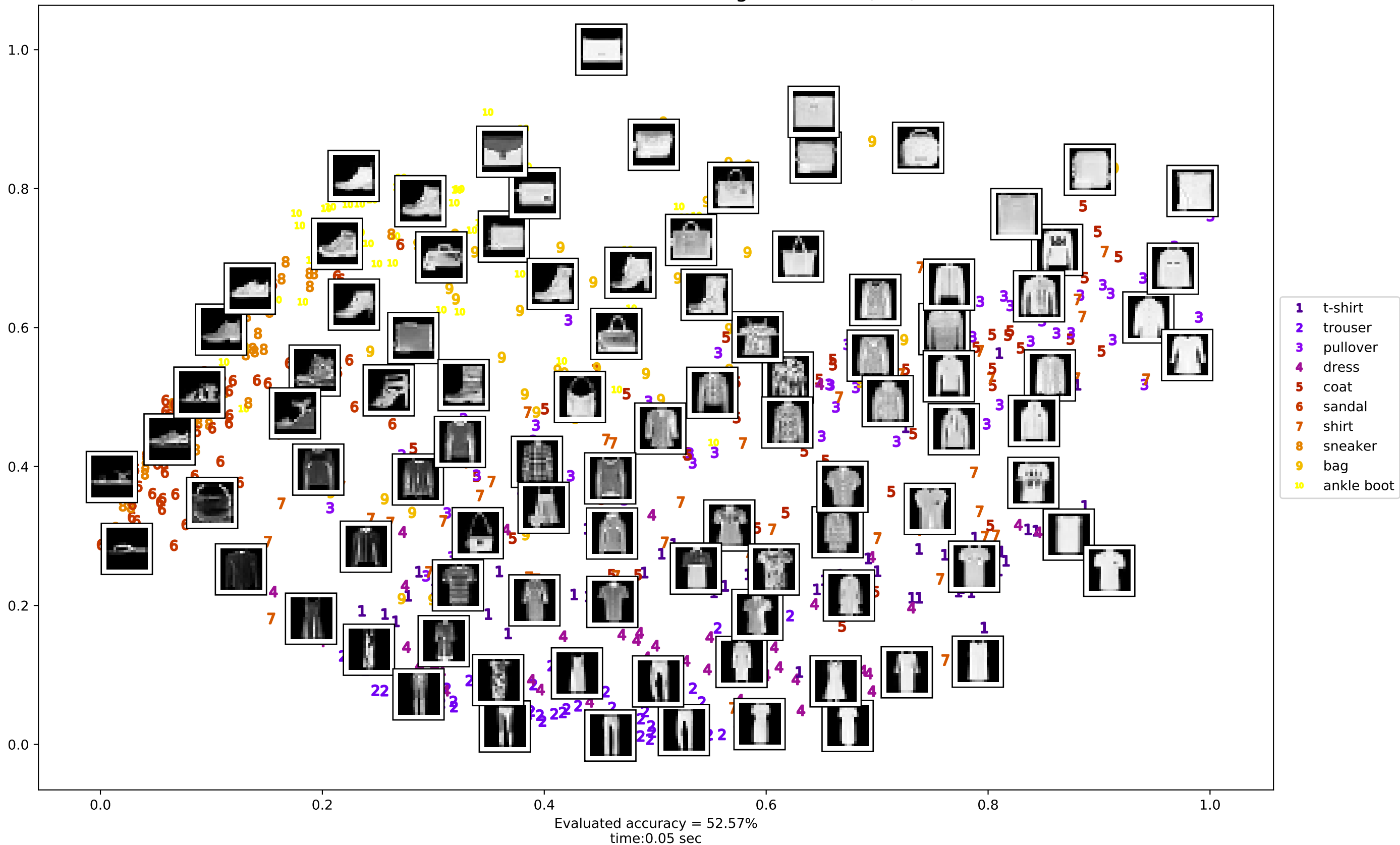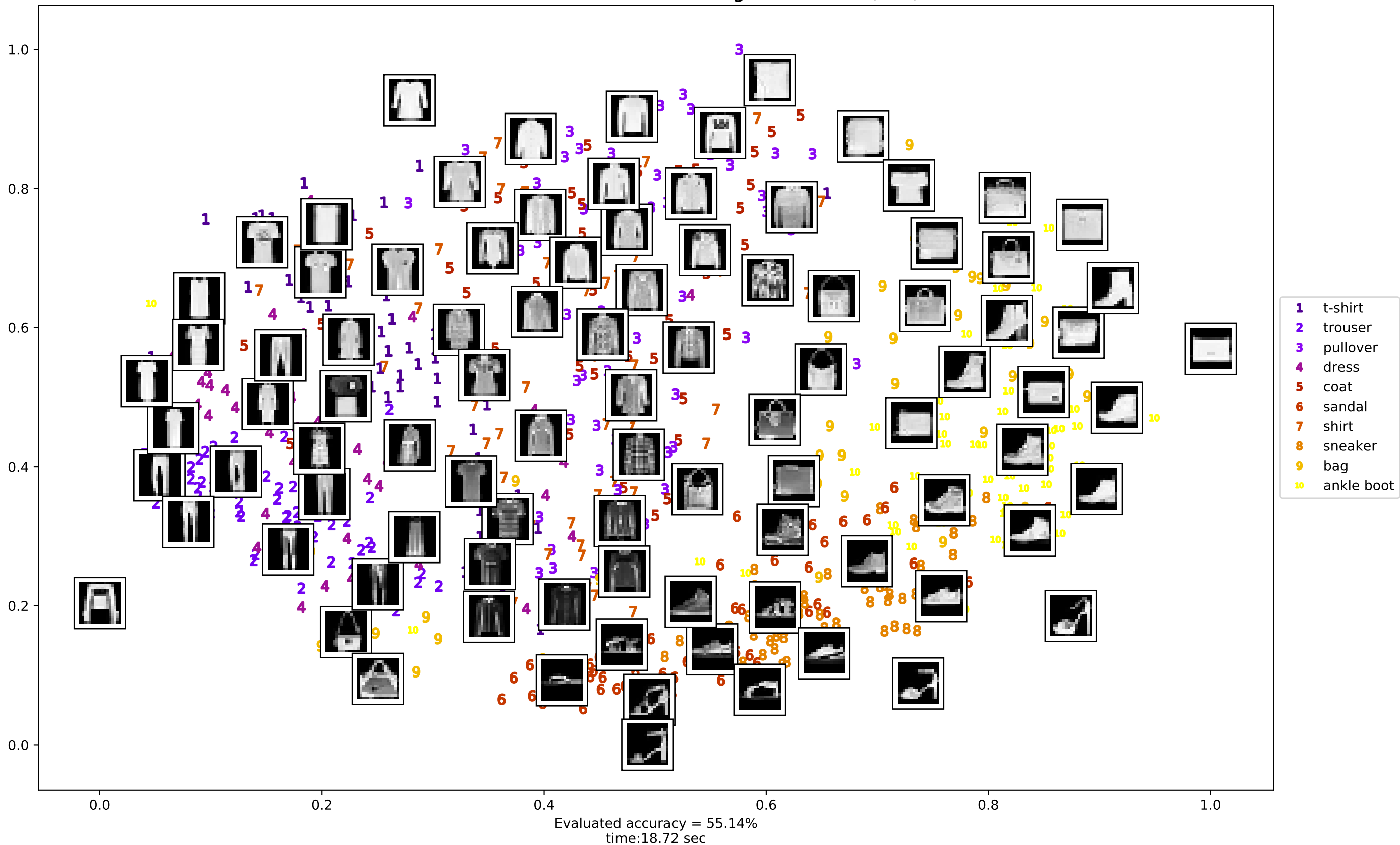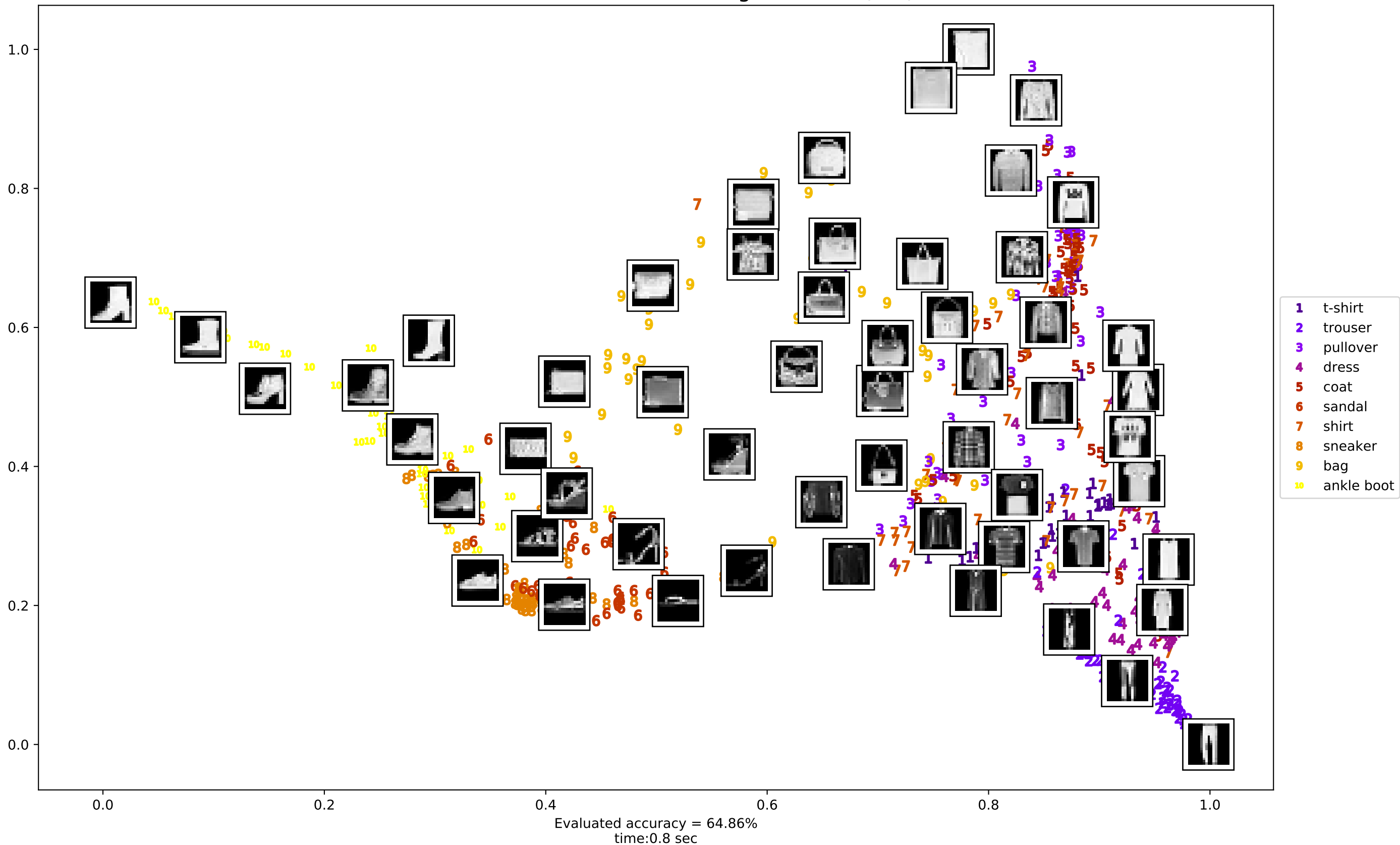
fashion MNIST dataset with images for ISOMAP (4/6)

1	t-shirt
2	trouser
3	pullover
4	dress
5	coat
6	sandal
7	shirt
8	sneaker
9	bag
10	ankle boot

Evaluated accuracy = 60.71%
time:0.94 sec
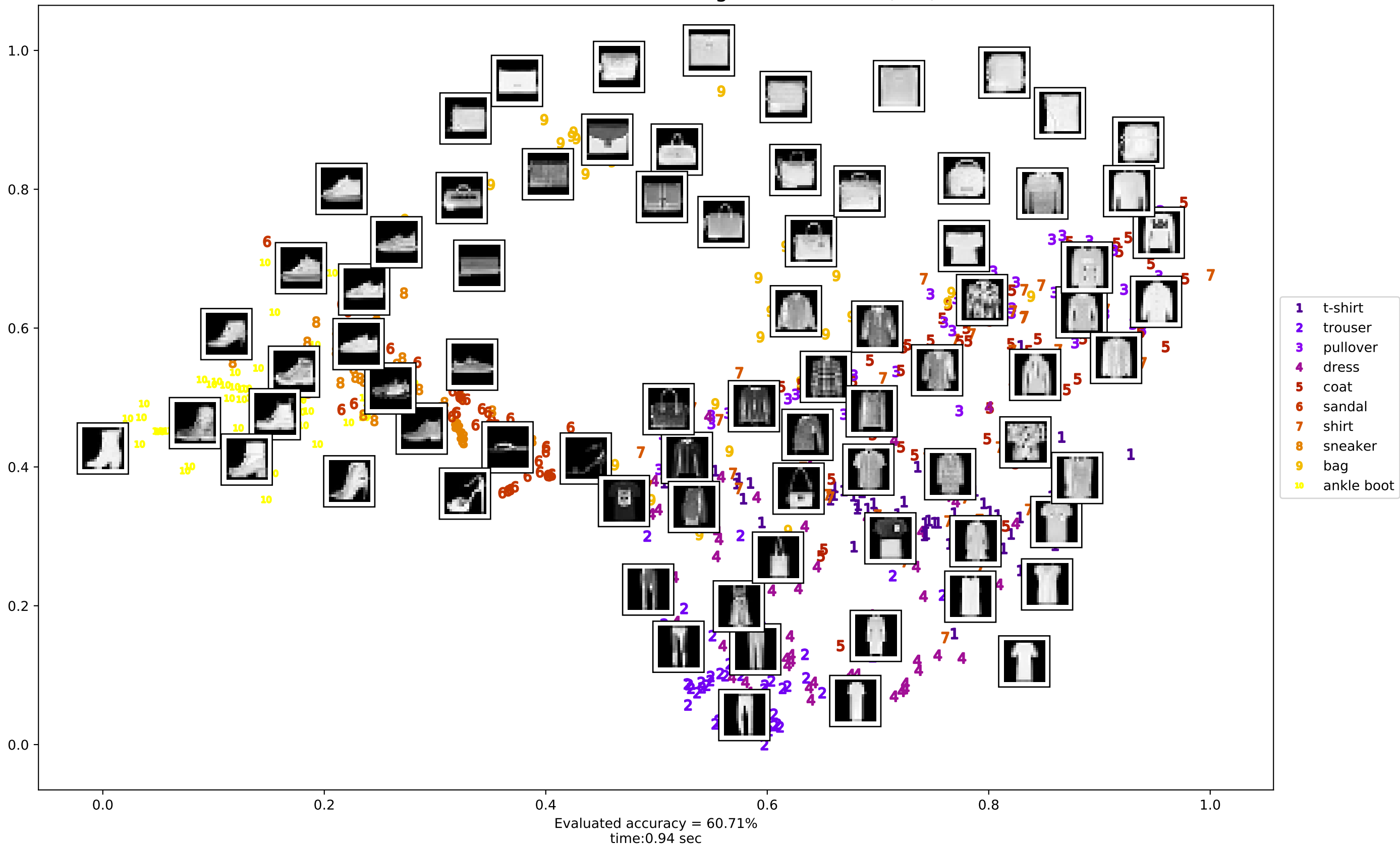
fashion MNIST dataset with images for T-SNE (5/6)

1	t-shirt
2	trouser
3	pullover
4	dress
5	coat
6	sandal
7	shirt
8	sneaker
9	bag
10	ankle boot

Evaluated accuracy = 69.43%
time:6.02 sec

1	t-shirt
2	trouser
3	pullover
4	dress
5	coat
6	sandal
7	shirt
8	sneaker
9	bag
10	ankle boot

Evaluated accuracy = 66.43%
time:1.73 sec