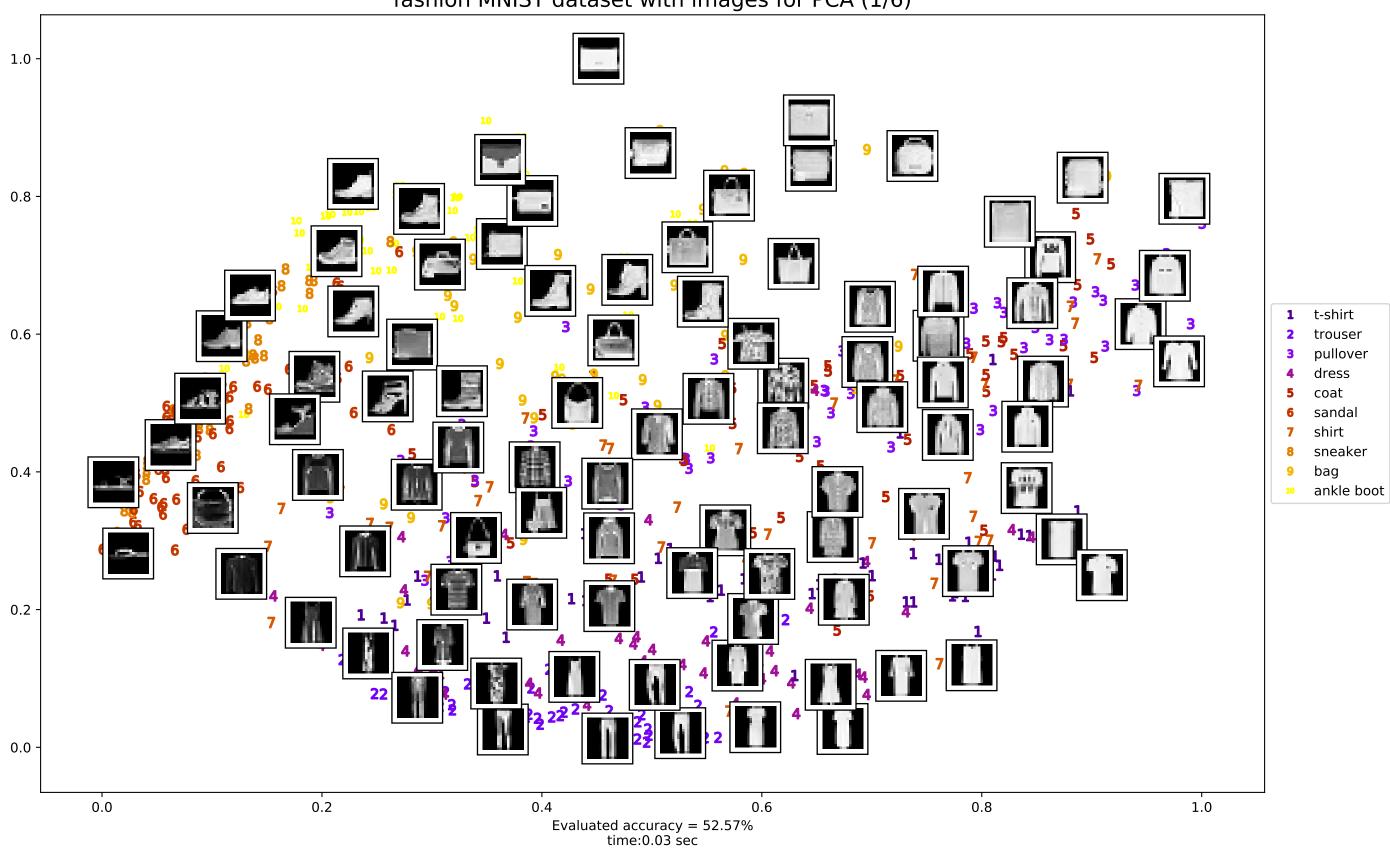
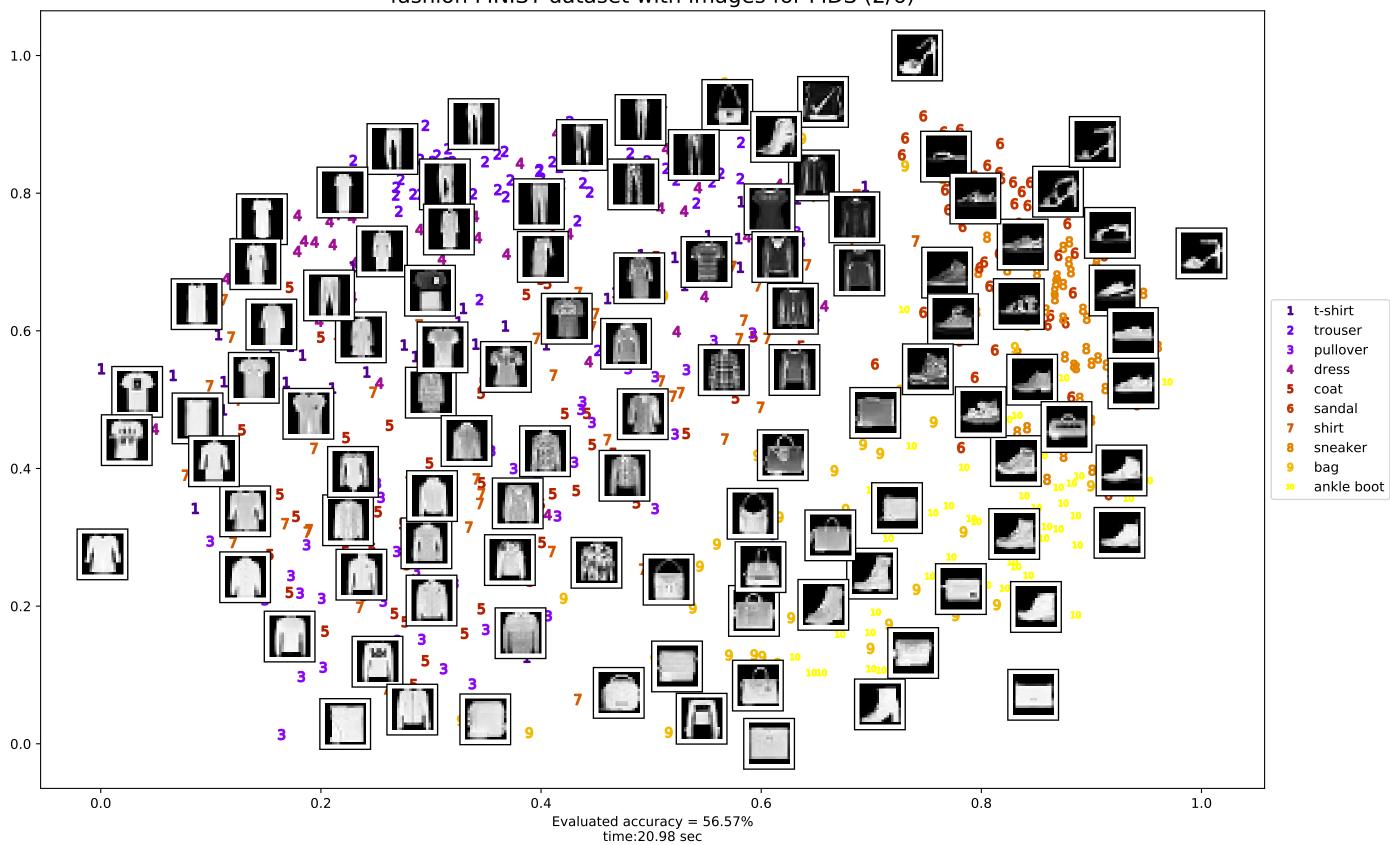
### 2D-visualization of fashion MNIST dataset PCA MDS LLE 1.0 1.0 1.0 0.8 8.0 8.0 1 t-shirt trouser pullover 0.6 dress 0.6 0.6 coat sandal 0.4 shirt 0.4 0.4 sneaker bag 0.2 ankle boot 0.2 0.2 0.0 0.0 0.0 0.0 1.0 0.0 0.2 0.0 0.2 0.6 0.2 8.0 0.6 0.8 1.0 0.4 8.0 1.0 0.6 0.4 Evaluated accuracy = 65.14% time:0.83 sec Evaluated accuracy = 52.57% time:0.0271 sec Evaluated accuracy = 56.57% time:20.98 sec **ISOMAP** T-SNE **UMAP** 1.0 1.0 -1.0 8.0 8.0 8.0 0.6 0.6 0.6 0.4 0.4 0.4 0.2 -0.2 0.2 0.0 0.0 0.0 0.0 0.2 8.0 1.0 0.0 0.2 0.6 0.8 1.0 0.0 0.2 0.6 0.8 0.6 0.4 0.4 0.4 1.0 Evaluated accuracy = 60.71% time:1.4077 sec Evaluated accuracy = 68.57% time:6.19 sec Evaluated accuracy = 66.0% time:2.7 sec

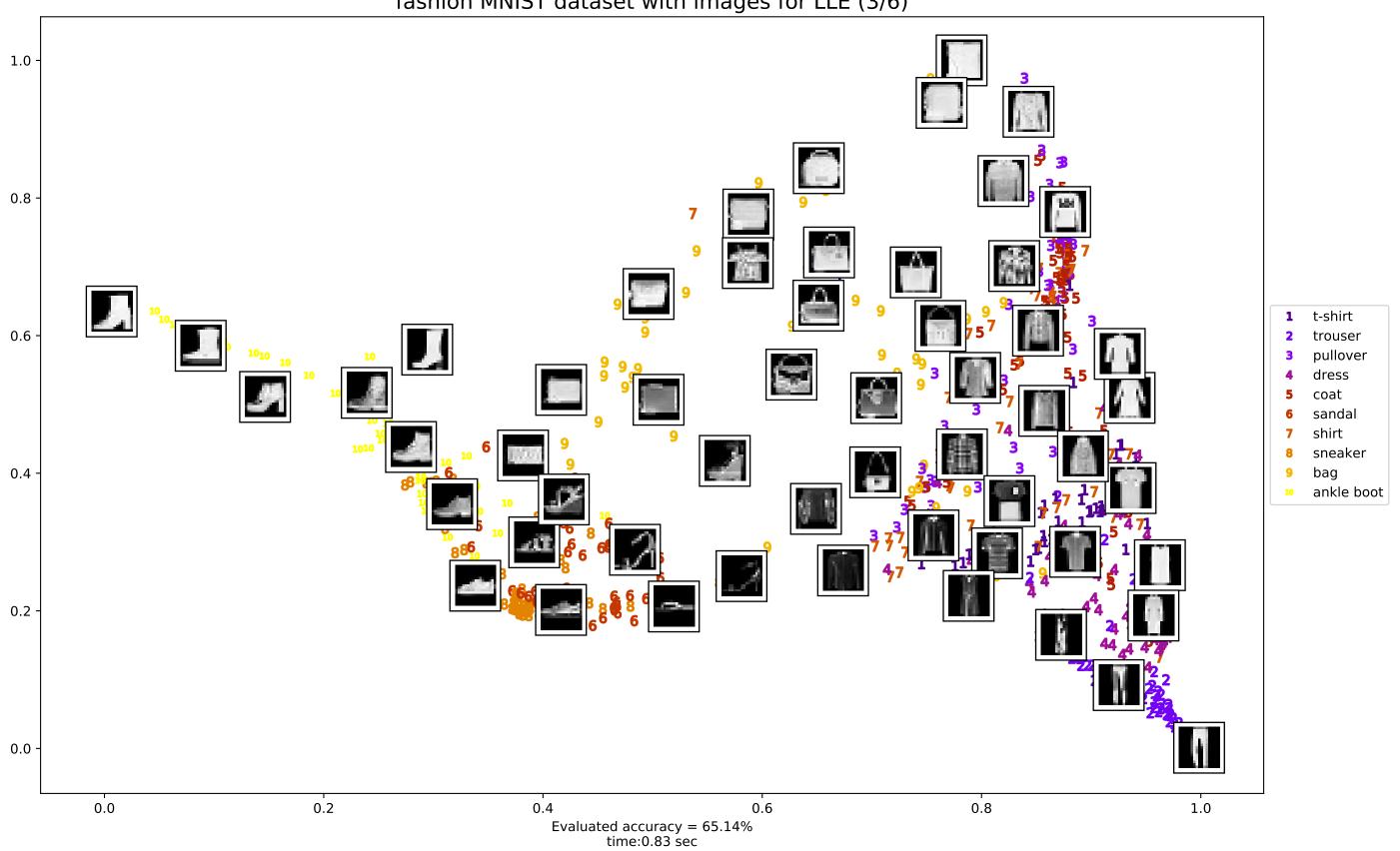
## fashion MNIST dataset with images for PCA (1/6)



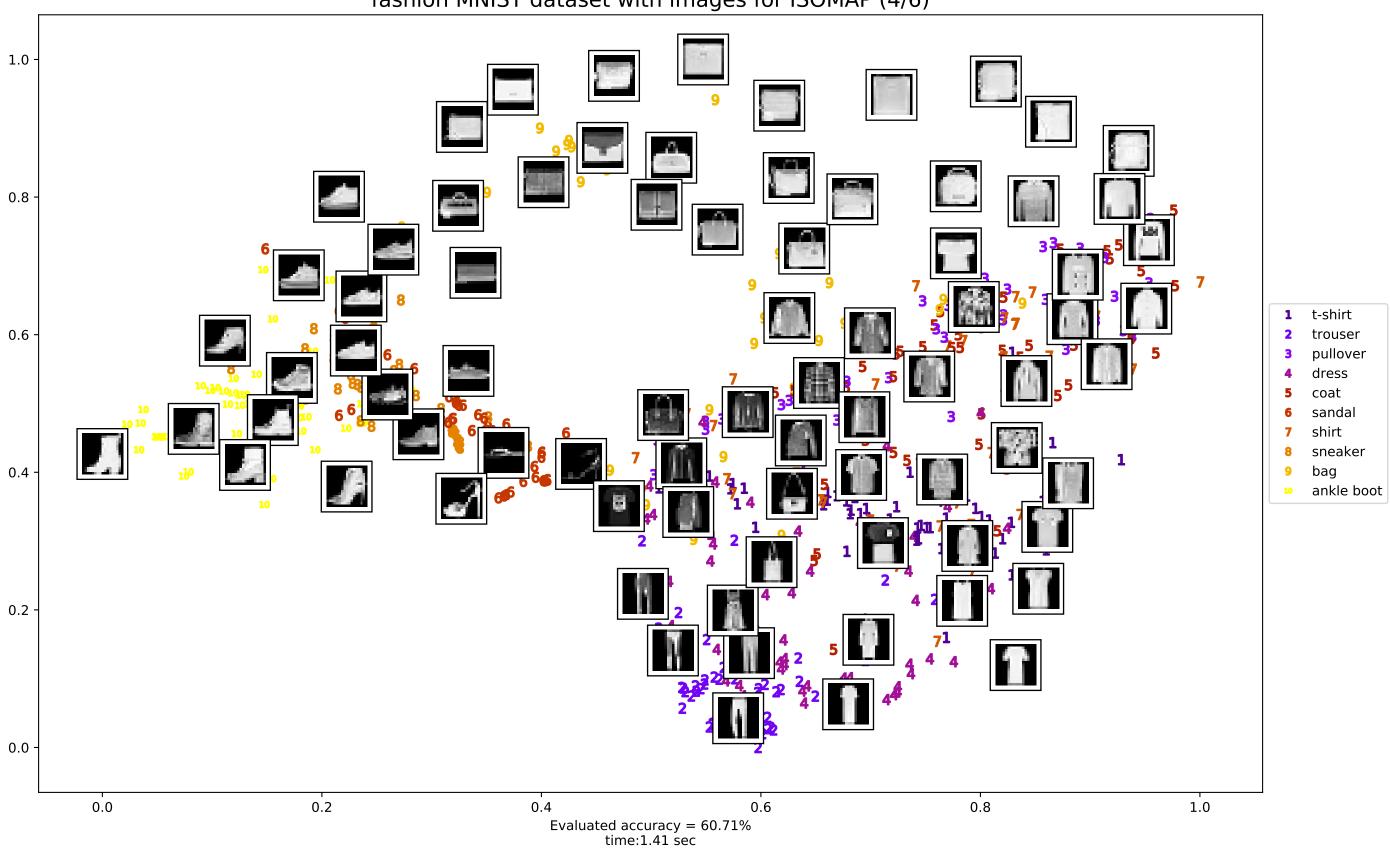
## fashion MNIST dataset with images for MDS (2/6)



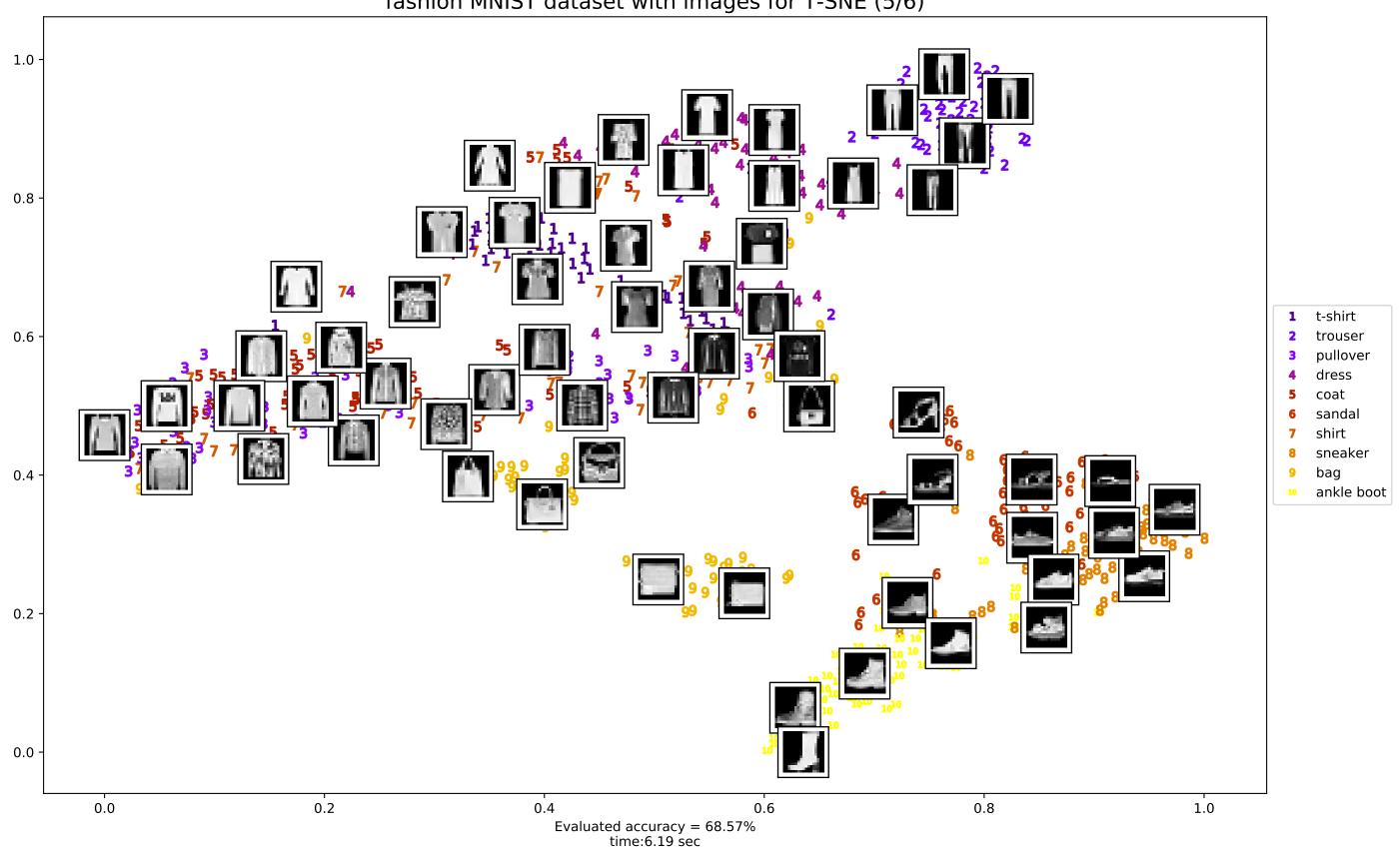
## fashion MNIST dataset with images for LLE (3/6)



## fashion MNIST dataset with images for ISOMAP (4/6)



## fashion MNIST dataset with images for T-SNE (5/6)



# fashion MNIST dataset with images for UMAP (6/6)

