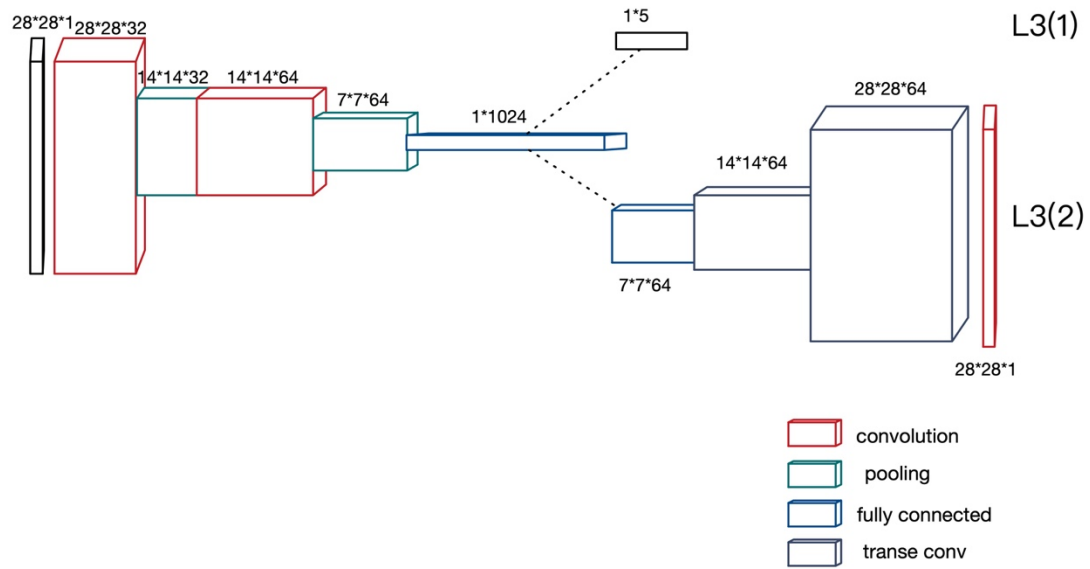


Visualization of Network Architecture



Loss Function:

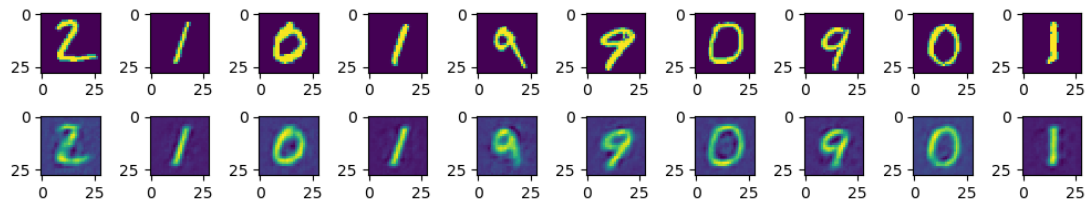
Cross Entropy Loss :

$$cost = -\frac{1}{n} [y \ln a + (1 - y) \ln(1 - a)]$$

L1 Loss :

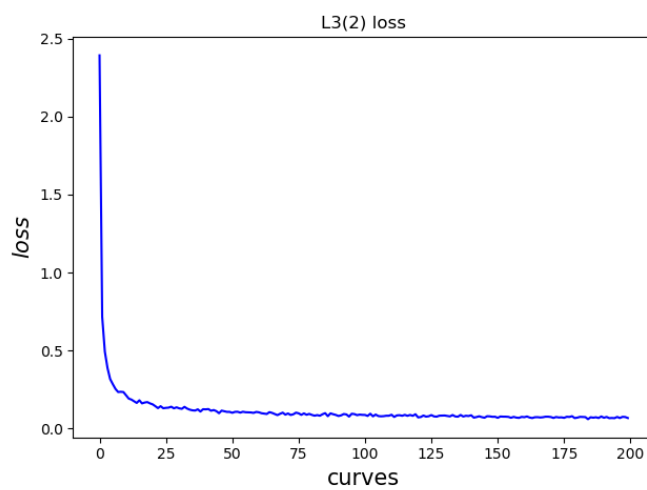
$$cost = \sum_{i=1}^n |y_i - f(x_i)|$$

reconstructed images :

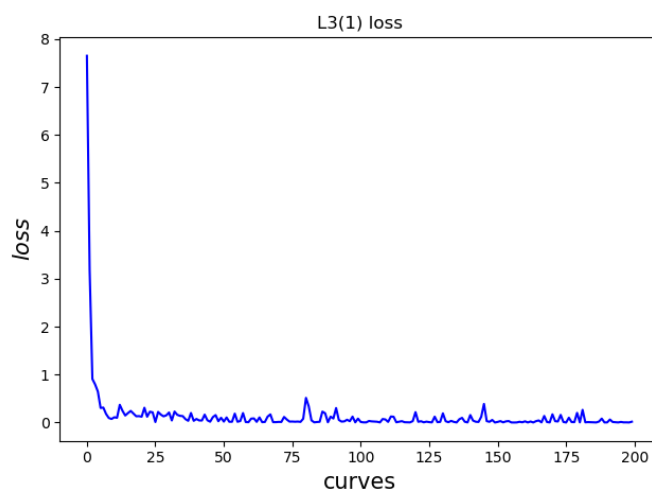


Loss:

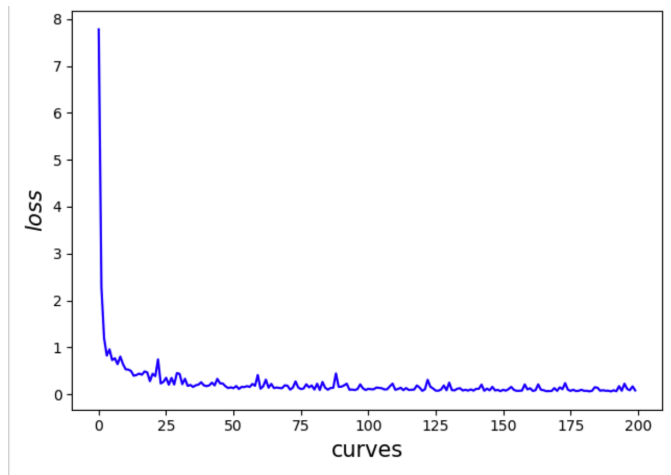
Autoencoder:



Classification:



Total Loss:



Classification performance on the test data:

Accuracy:99.3%

