

CP3 Report

EBM

Here we show the result of EBM:

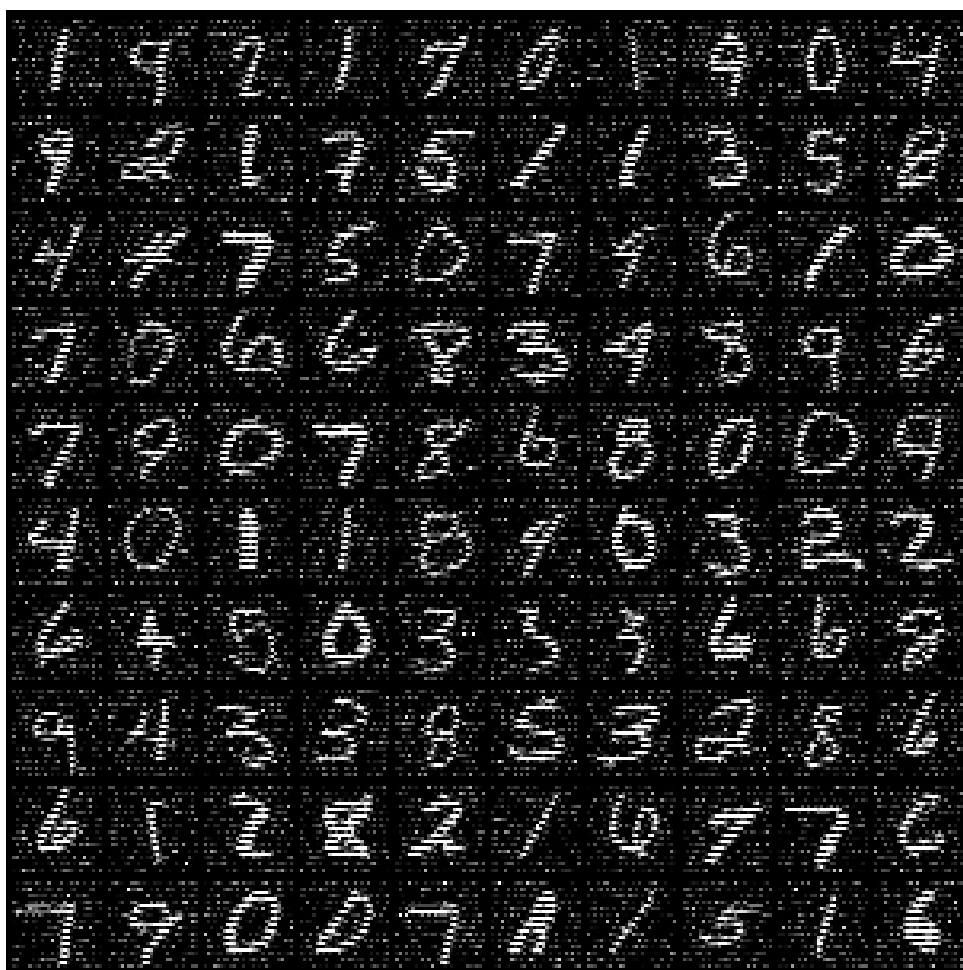


Figure 1: corrupted data from EBM

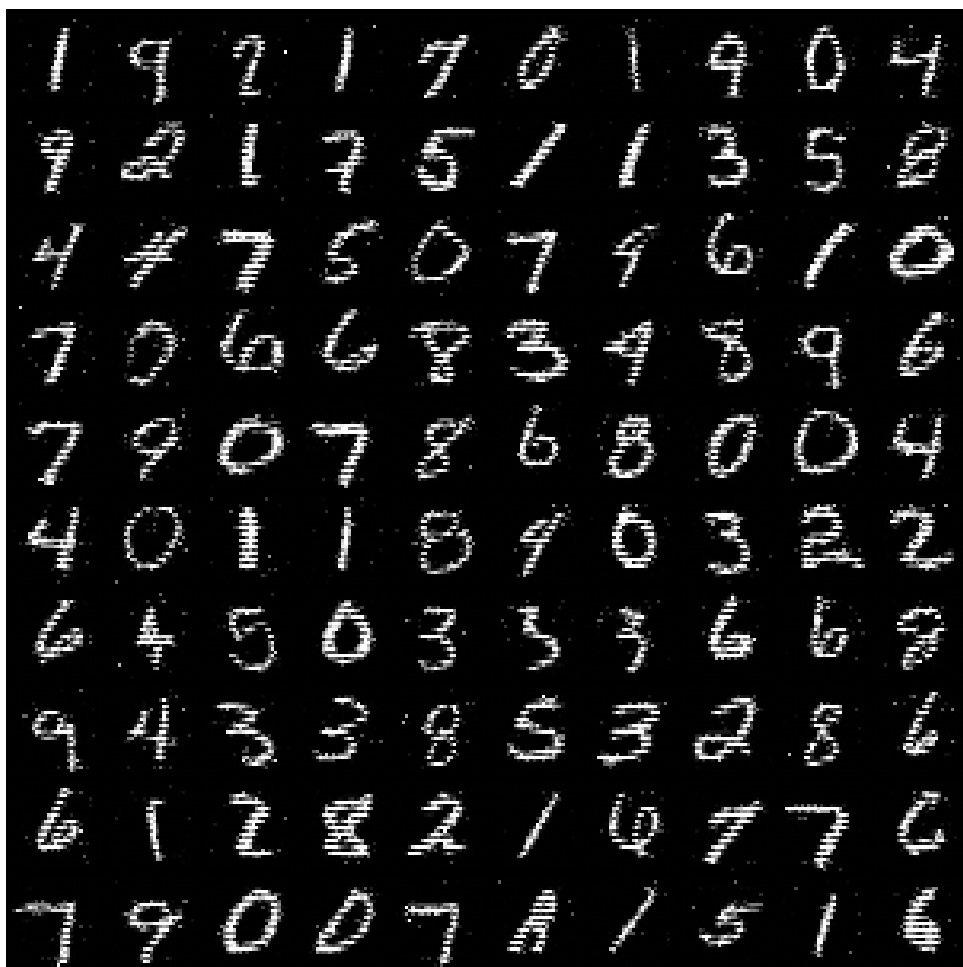


Figure 2: recovered data from EBM

The recovered MSE of the picture is 0.031, while the corrupted MSE is 0.063.

GAN

Here we show the result of GAN:

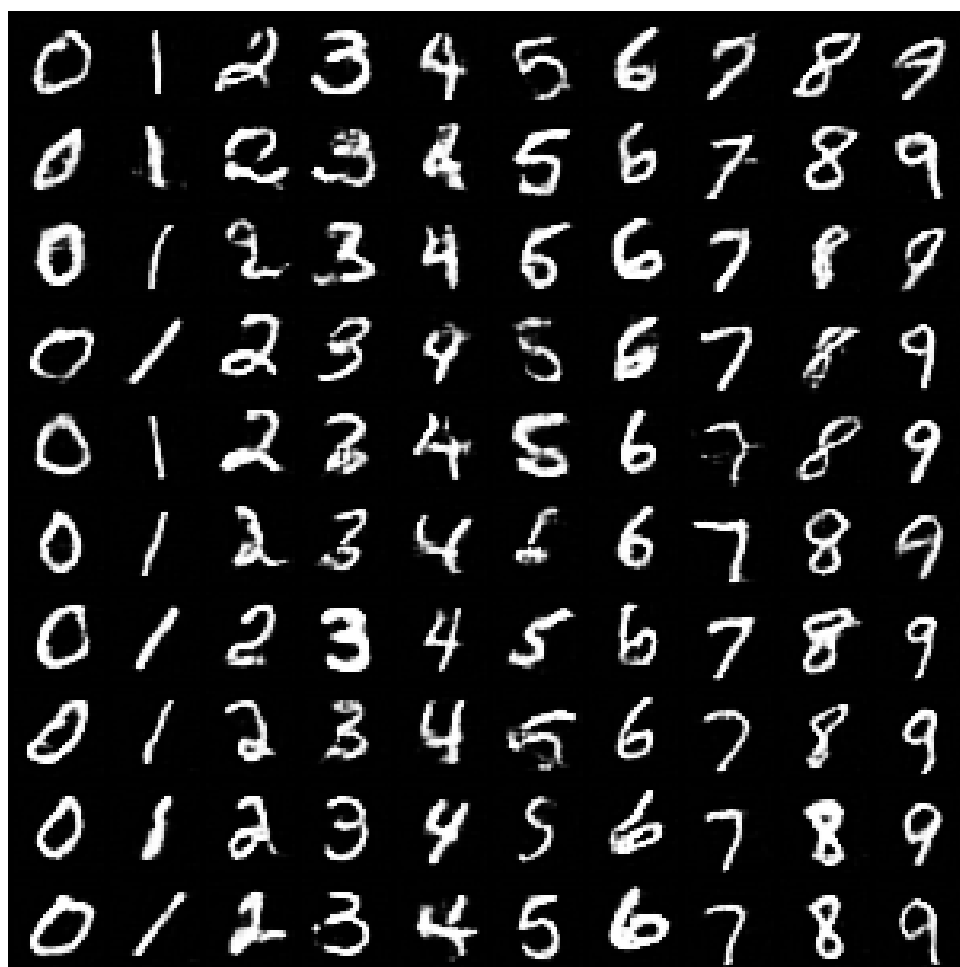


Figure 3: sample from GAN



Figure 4: Generated images from GAN

The std is shown in the below table:

Number	Standard Deviation	Requirements
0	0.1748	0.17
1	0.0885	0.08
2	0.1781	0.17
3	0.1603	0.15
4	0.1575	0.14
5	0.1708	0.16
6	0.1520	0.15
7	0.1552	0.13
8	0.1682	0.15
9	0.1486	0.13

Table 1: Standard deviation of generated numbers from GAN

The FID score for the 10 classes is as follows:

Class	FID Score
0	11.7428
1	5.5723
2	10.5990
3	7.8859
4	4.4279
5	14.2524
6	4.4726
7	9.6500
8	6.9259
9	6.0654

Table 2: FID scores for 10 classes