

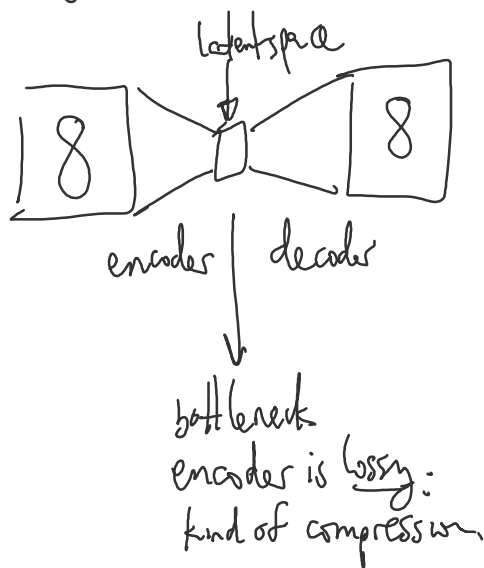
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Lecture 21

Other generative modeling frameworks

- (Variation of) Autoencoders

Totally diff than GANs — idea here is to learn explicit encoding into latent space and decoding from " "



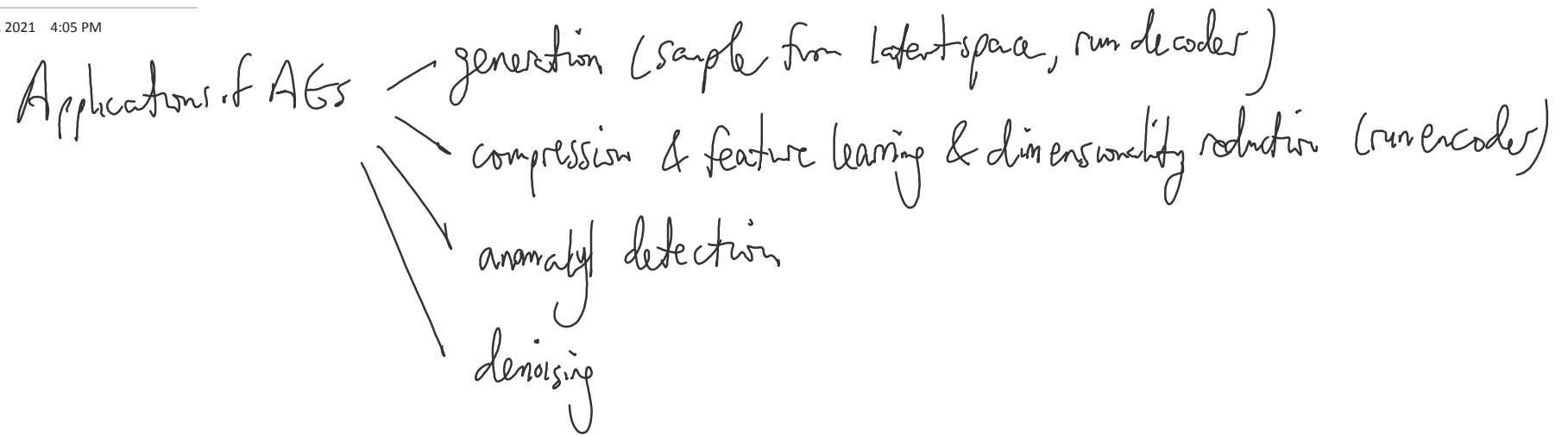
train to map data back to itself!

Loss = reconstruction error

e.g. $(\text{input} - \text{output})^2$ — MSE reg error.

idea: AE will learn the most useful latent representation to describe data.

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Pros:

- very easy to train
- explicit map to latent space

Cons:

- rarely state of art
- no optimality guarantee