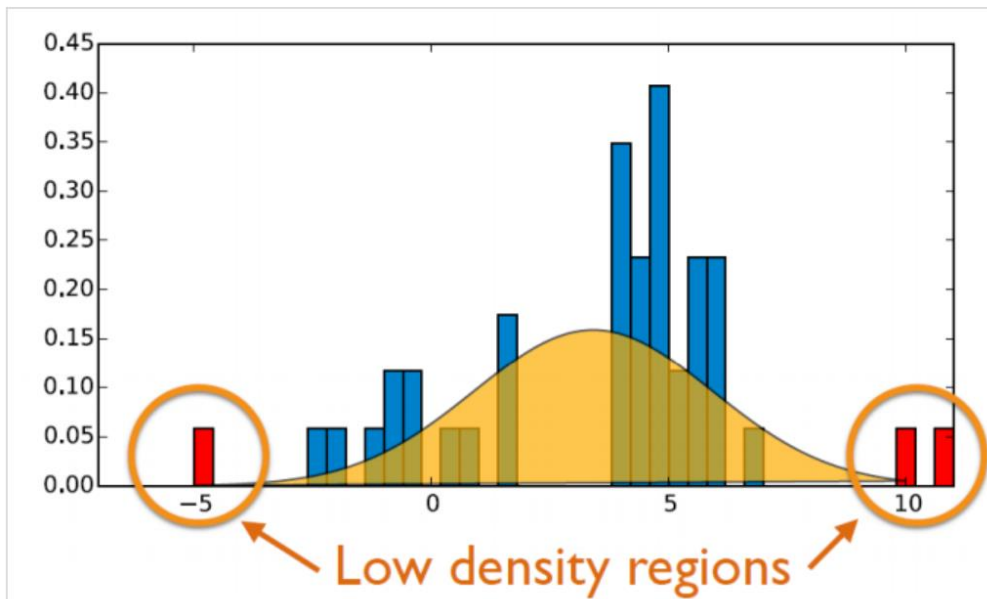


cGAN

# Parzen window density estimation

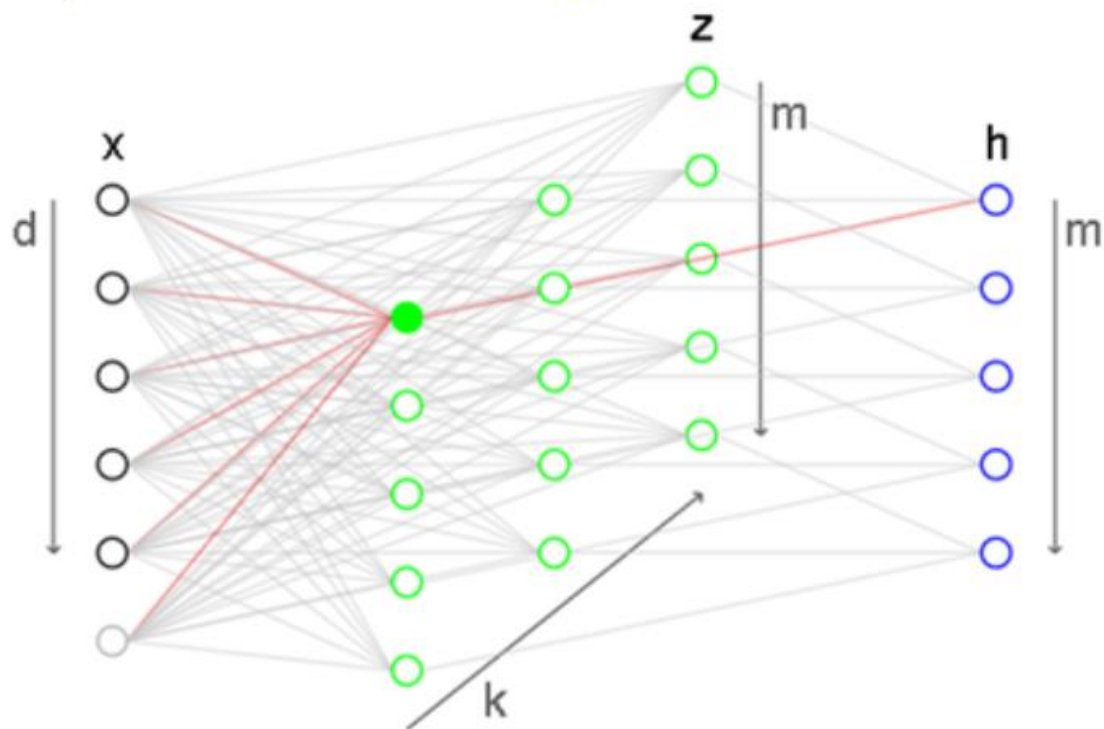
- Kernel density estimation
  - > 데이터가 특정 분포를 따르지 않는다고 가정
  - > 밀도추정
  - > 밀도기반 이상치 탐지



# Maxout-1

$$h_i(x) = \max_{j \in [1, k]} z_{ij}$$

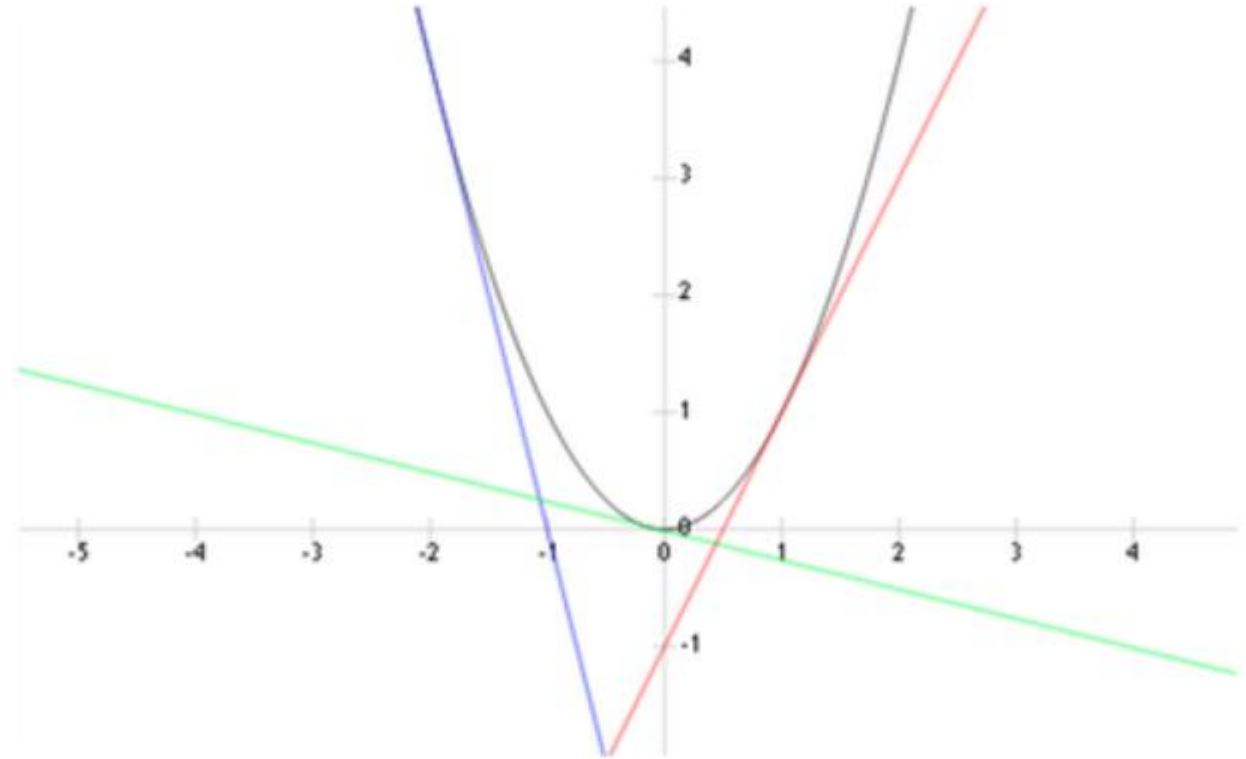
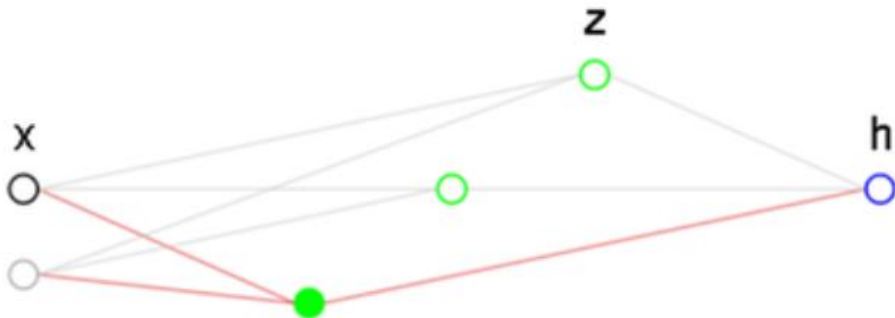
$$z_{ij} = x^T W_{\dots ij} + b_{ij}$$



- Input Units
- Fully-connected Units
- Max-pooling Units
- Bias

K개의 column값 중  
가장 큰 값이 h로  
들어간다.

# Maxout-2



3개의  $z$ 의 maxout이  $x^2$ 과 유사함  
: 새로운 *activation function*

-> MNIST classification에서 tanh, Relu 보다 좋은 성능을 냄.