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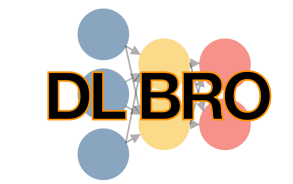
# 딥러닝 올인원

오토인코더

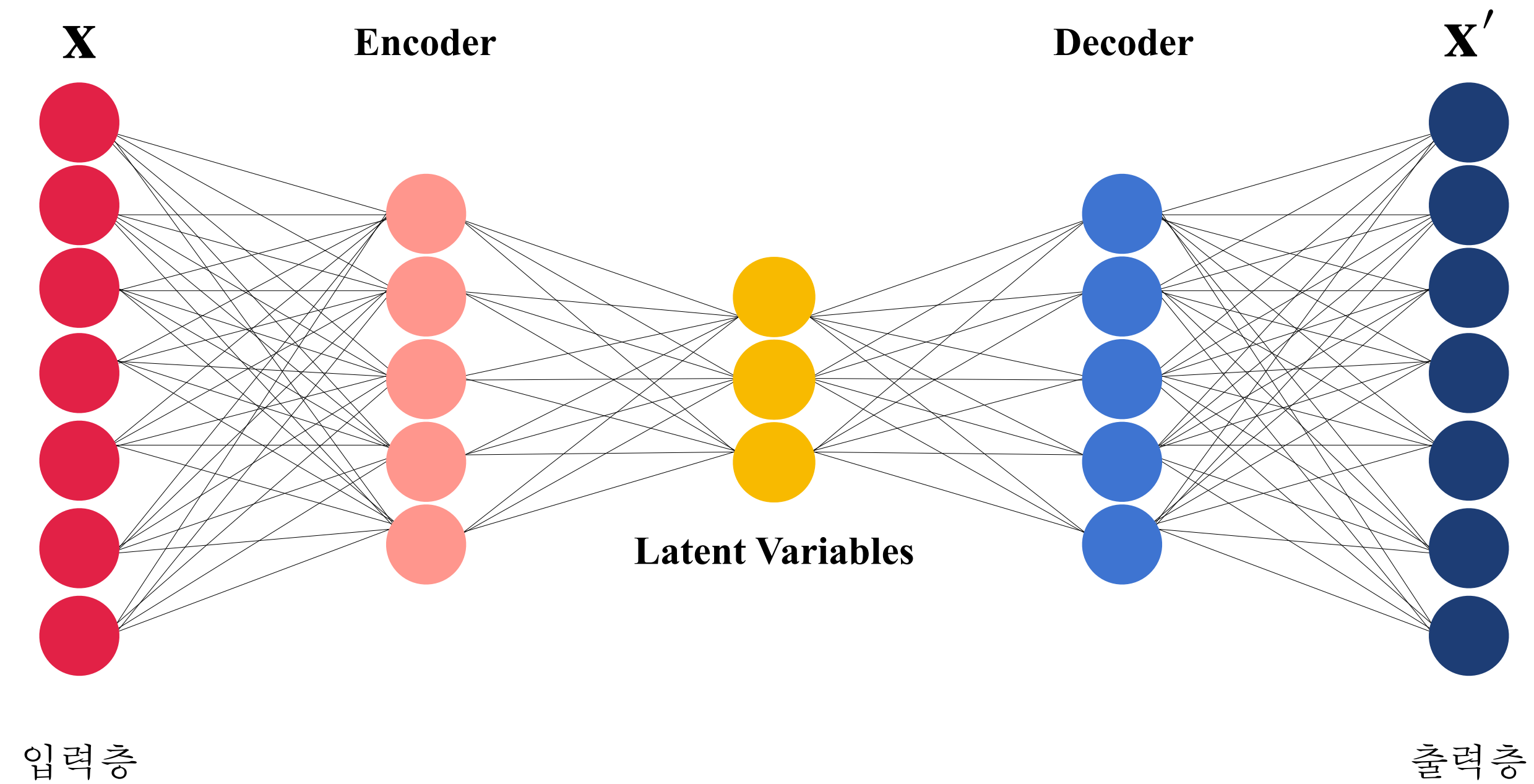
19강

딥러닝호형

# 오토인코더(Autoencoder)

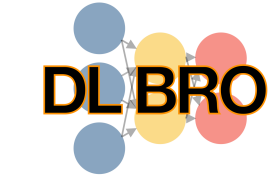


## 모델



# 오토인코더(Autoencoder)

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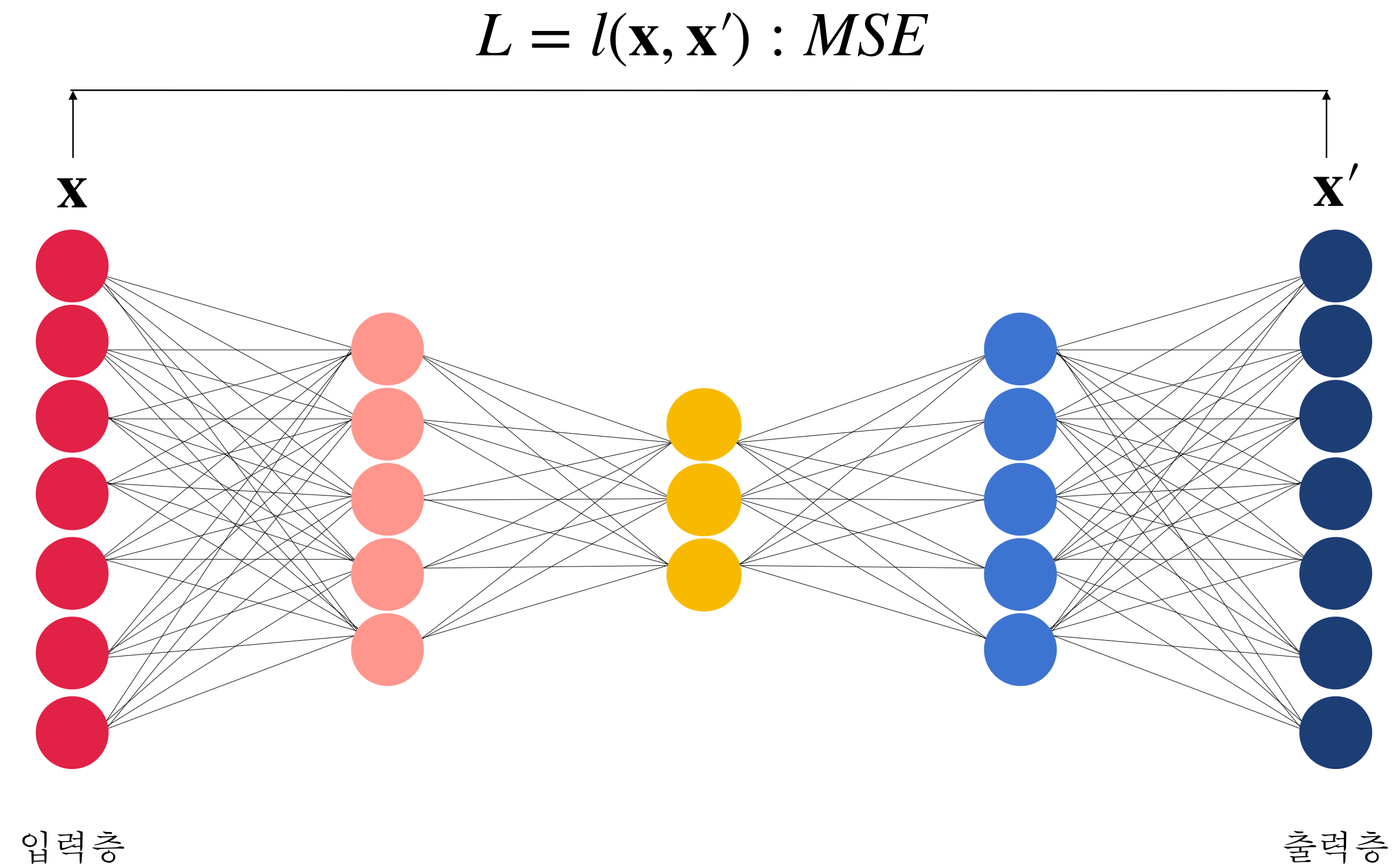


## 특징

- 비지도 학습(unsupervised learning)
- 차원 축소 가능
- 추가적인 이미지 생성 가능
- 일반적으로 대칭 구조를 지님

# 오토인코더(Autoencoder)

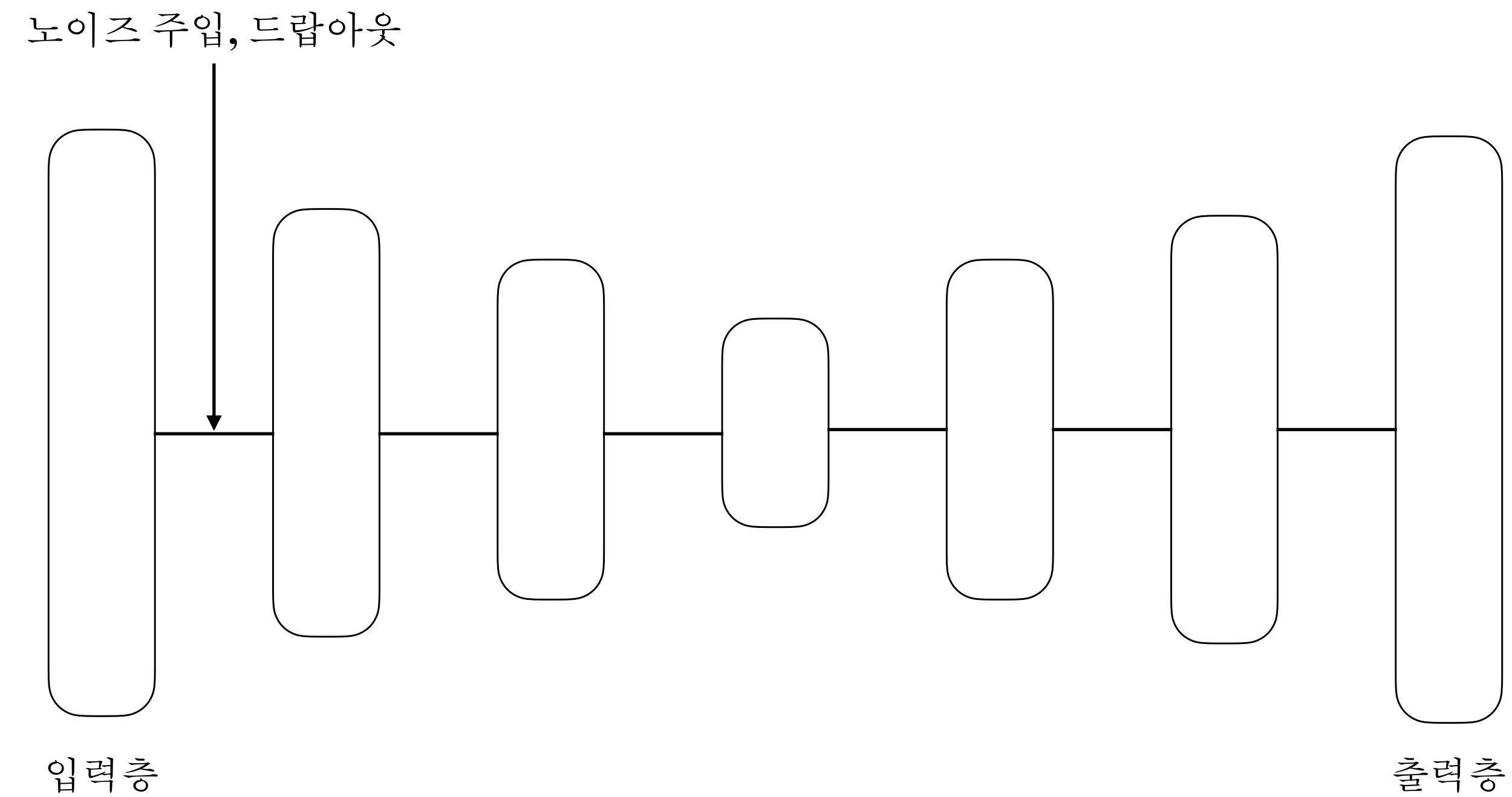
## 학습 방법



## 종류

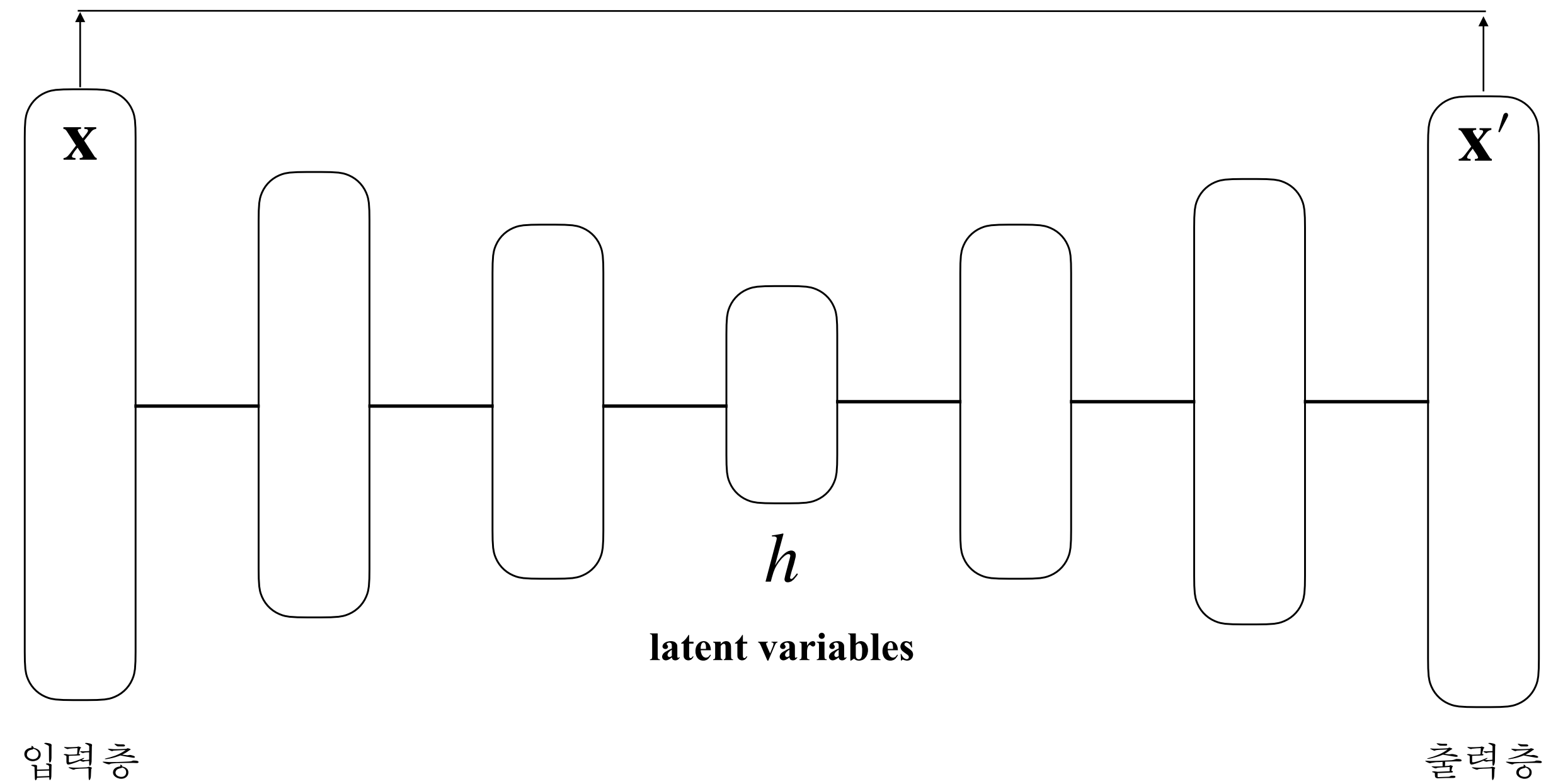
- Stacked Autoencoder(기본 구조 - 여러 개의 은닉층 존재)
- Denoising Autoencoder
- Sparse Autoencoder
- Convolutional Autoencoder

## Denoising Autoencoder



## Sparse Autoencoder

$$L(x, g(f(x))) + \lambda \sum_i \|\nabla_x h_i\|$$



## Convolutional Autoencoder

