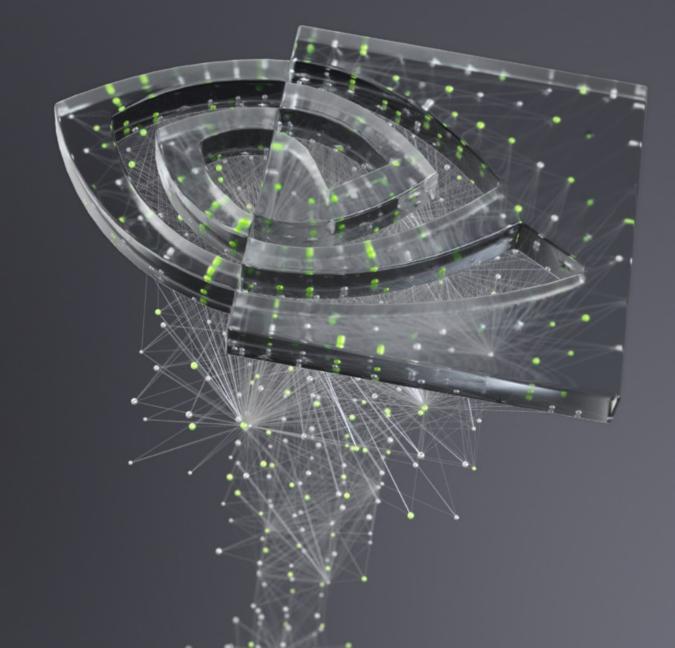


# 딥러닝의 기초

6부: 고급 아키텍처



목차

I부: 딥러닝 소개

2부: 뉴럴 네트워크의 트레이닝 방식

3부: CNN(Convolutional Neural Network)

4부:데이터 증강 및 배포

5부: 사전 트레이닝된 모델

6부:고급 아키텍처

# 목차 – 6부

- 다음 단계
- 자연어 처리
- RNN(Recurrent Neural Network)
- 기타 아키텍처
- 결론



## AI 분야



## AI 분야



## AI 분야

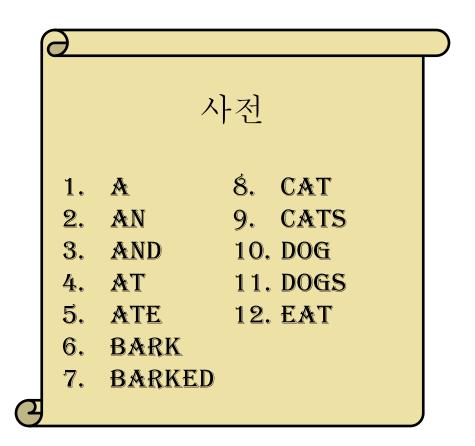




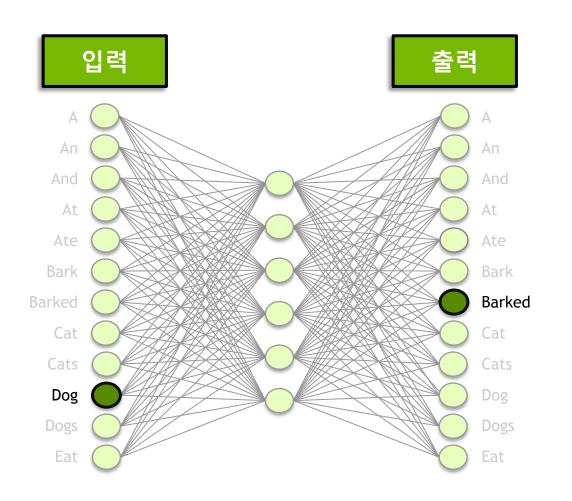
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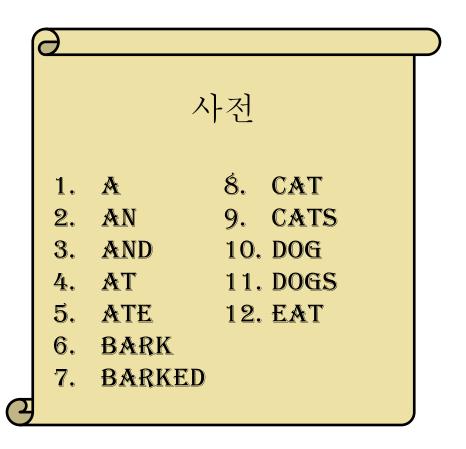
"A dog barked at a cat."

[1, 10, 7, 4, 1, 8]

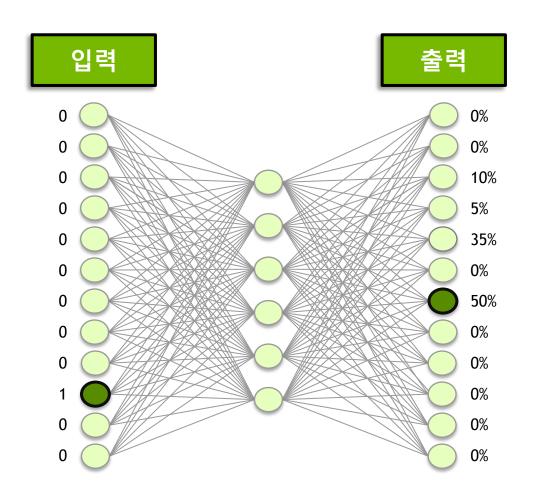


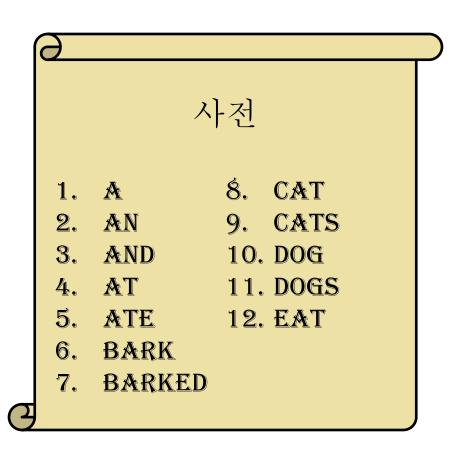
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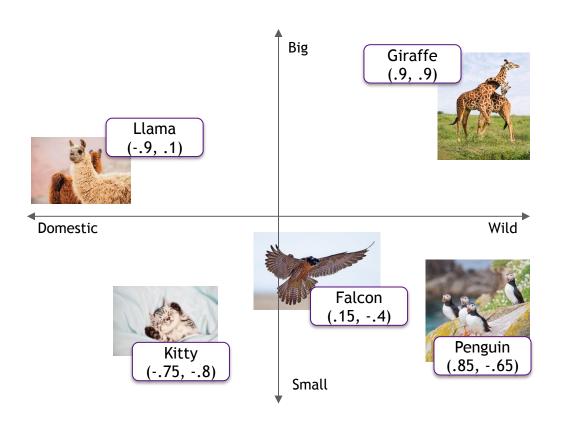


## 단어에서 숫자로: ONE-HOT-ENCODING



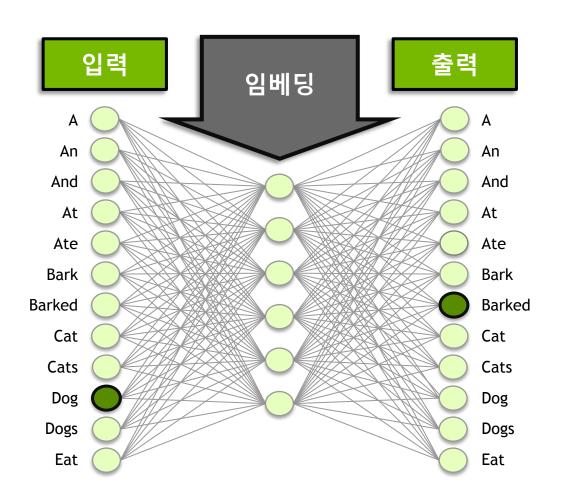


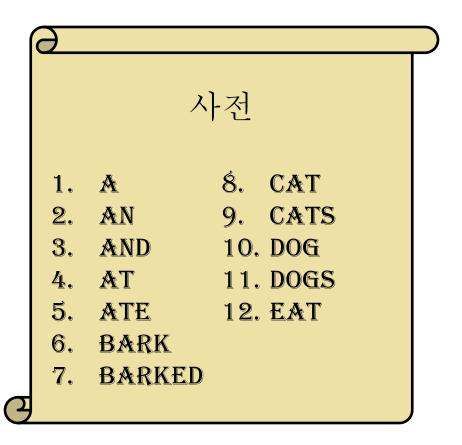
## 단어에서 숫자로: EMBEDDING



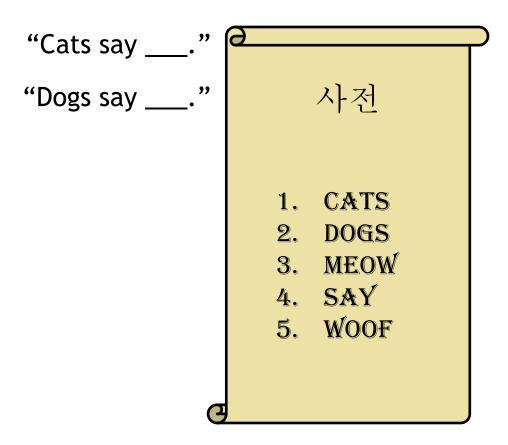


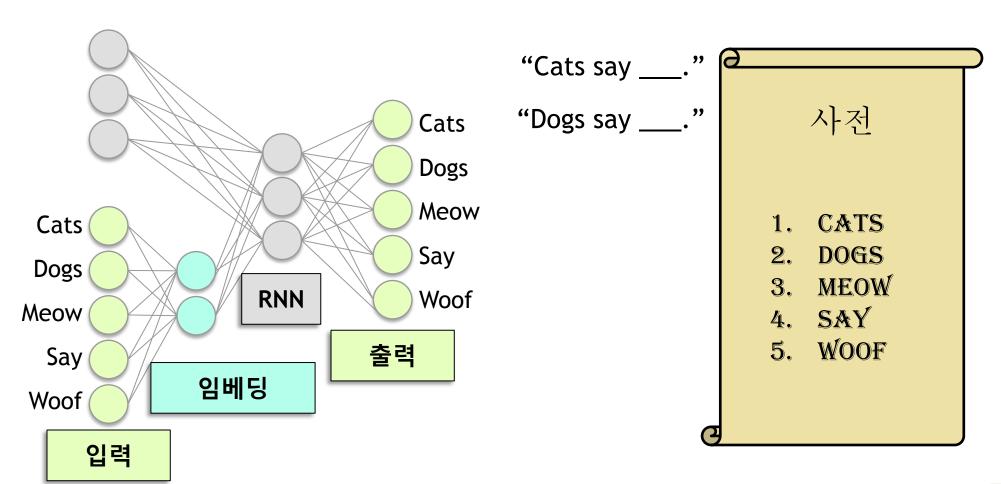
## 단어에서 숫자로

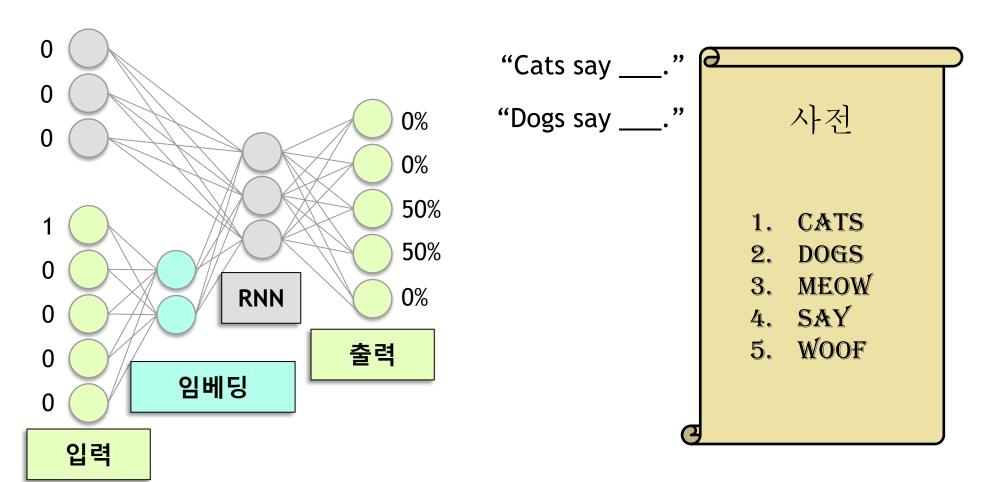


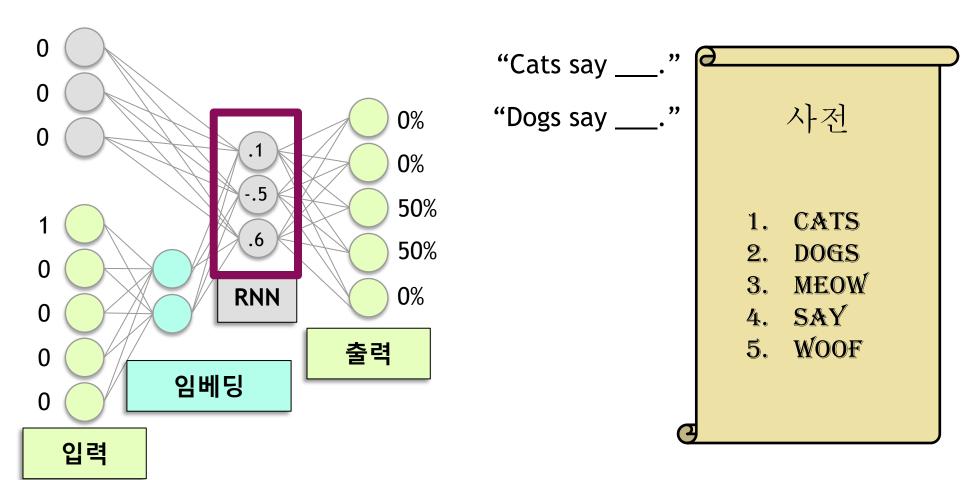


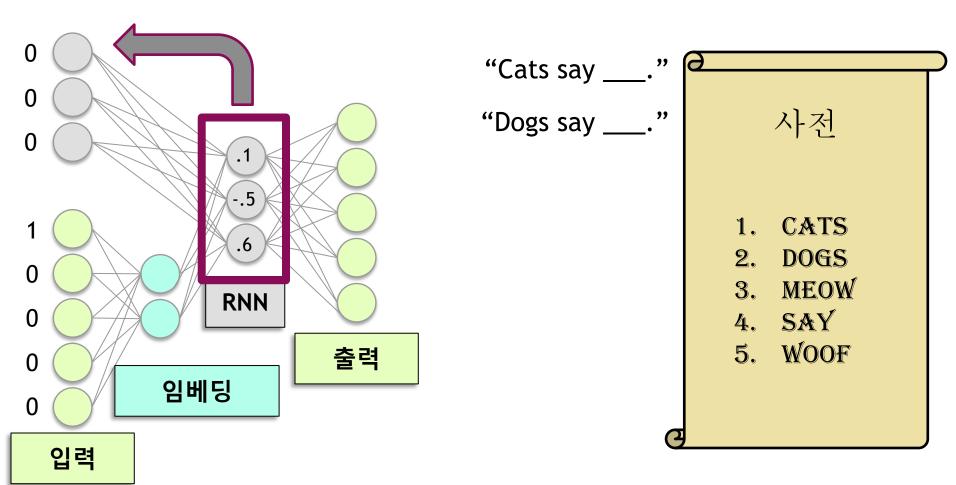


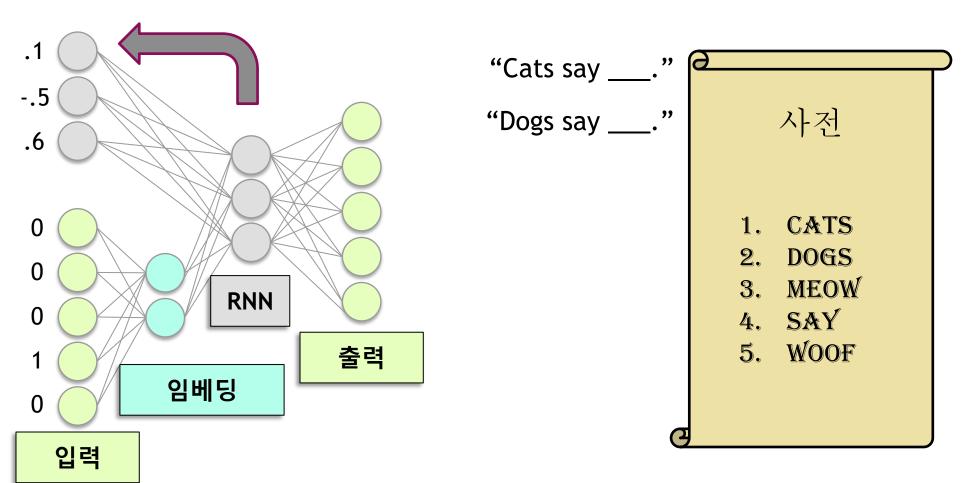


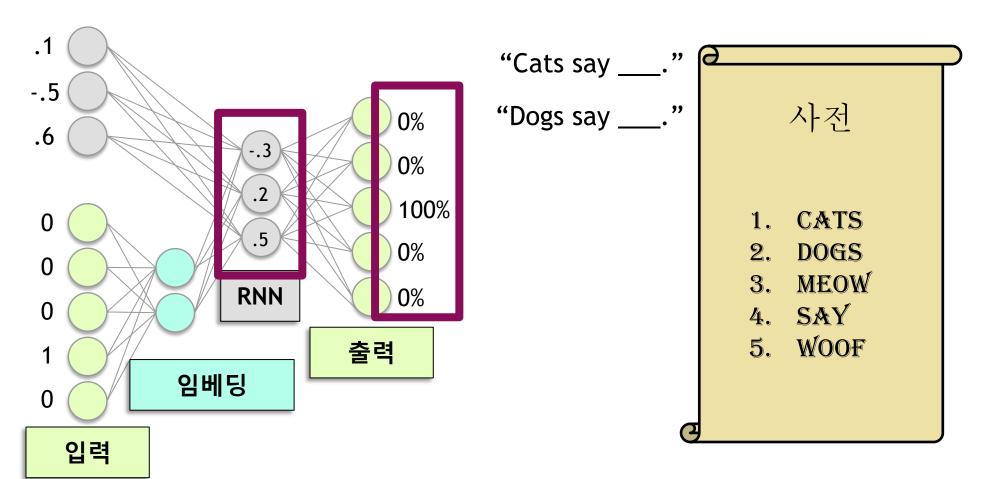


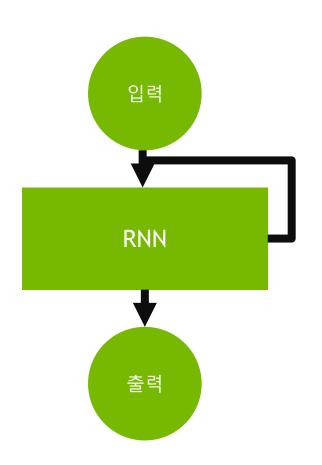


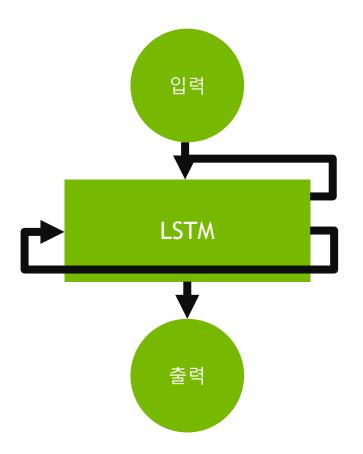






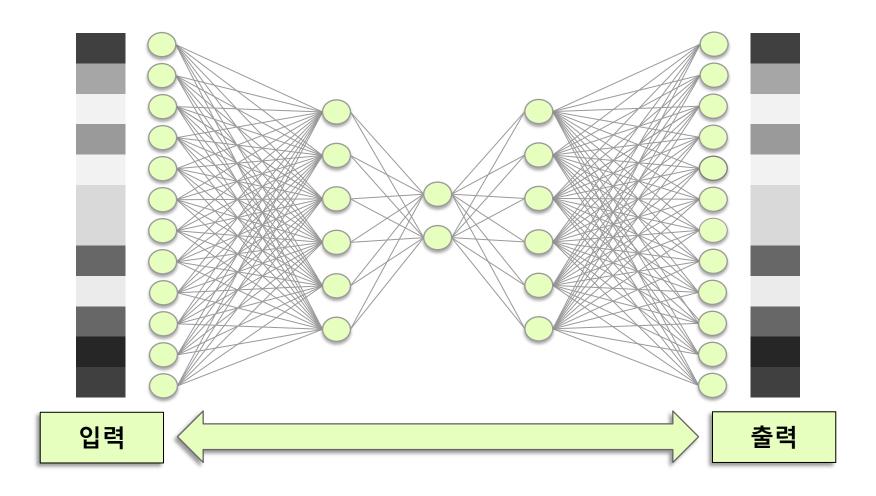




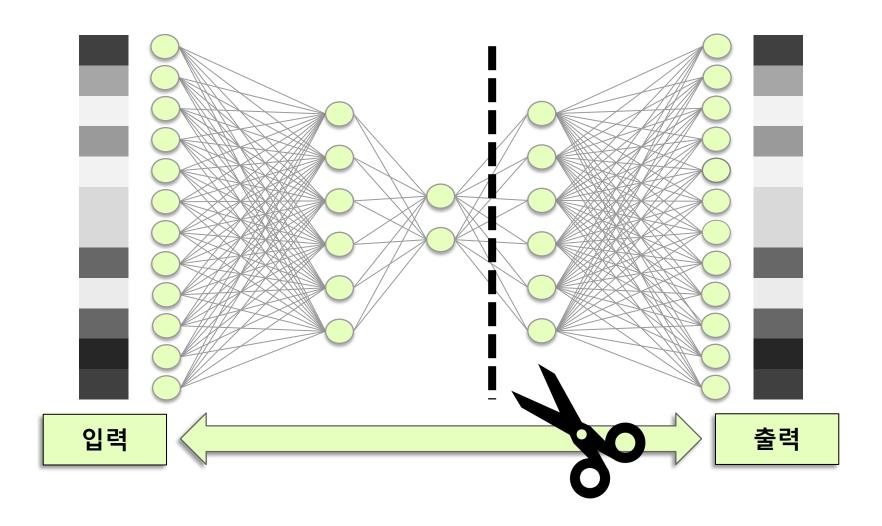




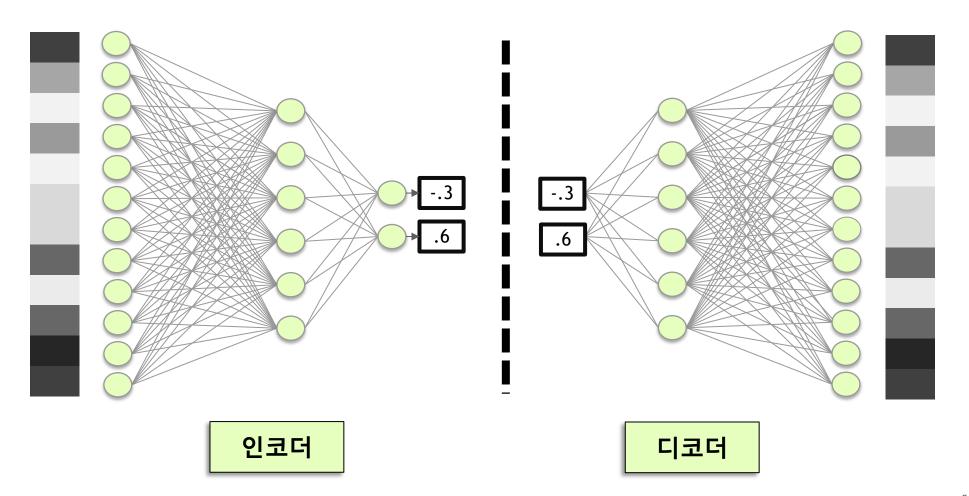
# 오토인코더(AUTO ENCODER)



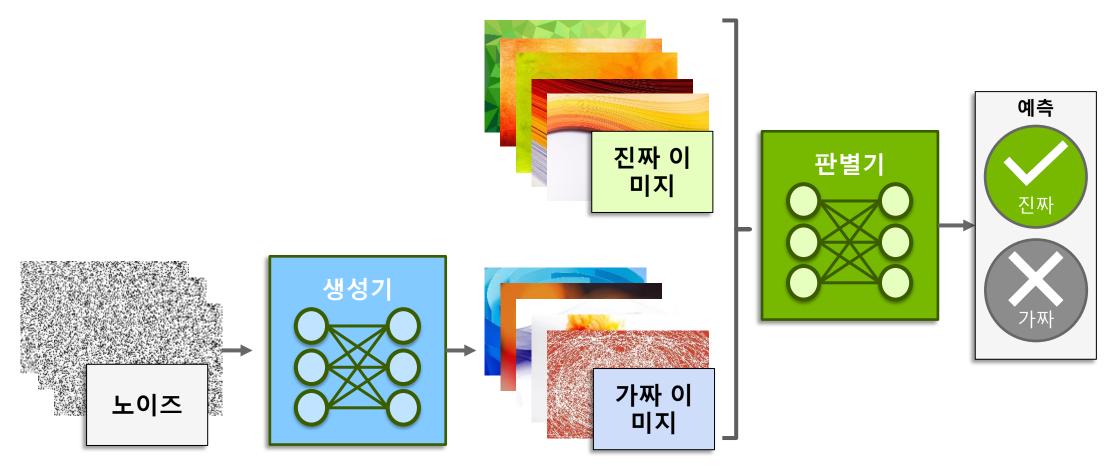
# 오토인코더(AUTO ENCODER)



# 오토인코더(AUTO ENCODER)

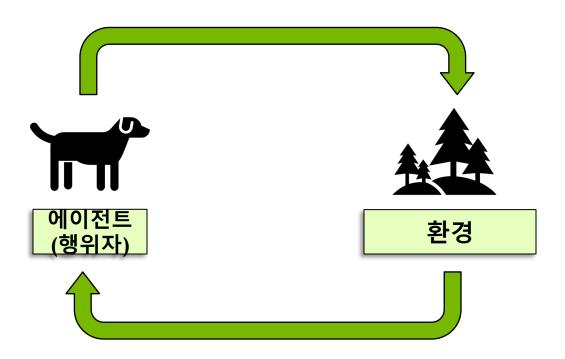


## GAN(GENERATIVE ADVERSARIAL NETWORKS)



## 강화 학습 (REINFORCEMENT LEARNING)







### NGC 컨테이너

#### 방대한 범위

- 다양한 범위의 워크로드 및 산업별 사용 사례

#### 최적화

- DL 컨테이너가 매월 업데이트됨
- 최신 기능과 탁월한 성능 보유

#### 보안 및 안정성

- 취약성 및 암호에 대해 검사됨
- 워크스테이션, 서버 및 클라우드 인스턴스에서 테스트됨

#### 확장성

- 멀티 GPU 및 멀티 노드 시스템 지원

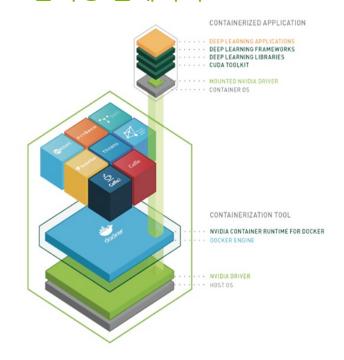
#### 엔터프라이즈 및 HPC용으로 설계됨

- Docker, 특이성(Singularity) 및 기타 런타임 지원

#### 어디서나 실행가능

- 베어메탈, VM, Kubernetes
- X86, ARM, POWER
- 멀티 클라우드, 온-프레미스, 하이브리드, 엣지

### NGC 딥러닝 컨테이너













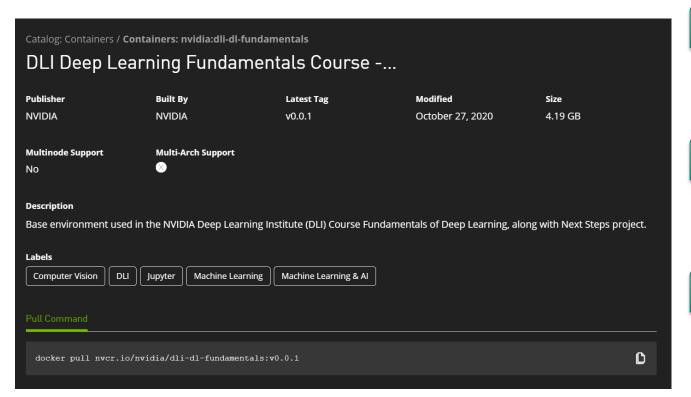








## 이 수업의 다음 단계



1단계 Docker 설정 https://www.docker.com/ 2단계 NGC 카탈로그 방문 https://ngc.nvidia.com/catalog/co ntainers/nvidia:dli-dlfundamentals 3단계 컨테이너 Pull 및 Run localhost:8888



# 로켓 사이언스 모방하기





