Week1

DataBiz팀 조용걸

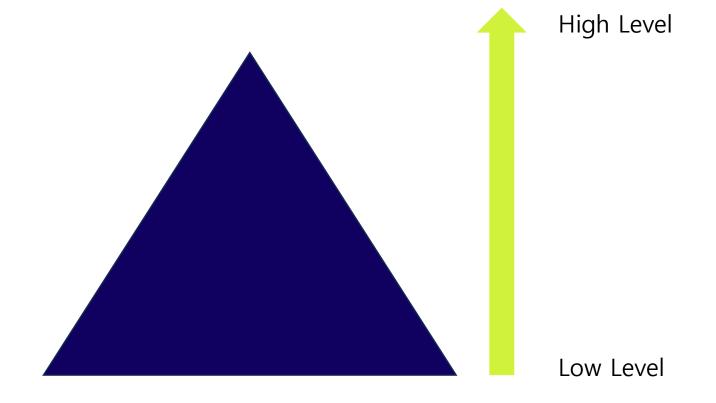
Python

Python

https://www.codestates.com/blog/content/%EA%B0%9D%EC%B2%B4-%EC%A7%80%ED%96%A5-%ED%94%84%EB%A1%9C%EA%B7%B8%EB%9E%98%EB%B0%8D-%ED%8A%B9%EC%A7%95

Low Coupling, High Cohesion





Warrior



```
class Warrior(Person):
    def shild(self):
        print("shild")

    def attack(self):
        print("power strike")
```

Wizard



```
class Wizard(Person):
    def teleport(self):
        print("teleport")

def attack(self):
    print("energy bolt!")
```

Person



```
class Person:

def __init__(self, name):
    self.name = name
    print(f"Create {name} object!")

def up(self):
    print("up button")

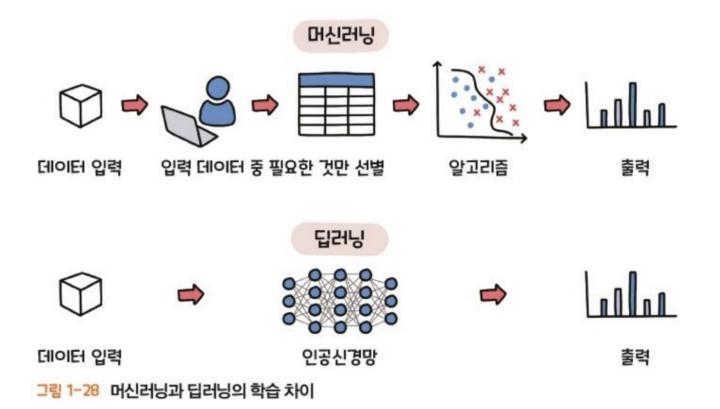
def down(self):
    print("down button")

def left(self):
    print("left button")

def right(self):
    print("right button")

def attack(self):
    print("attack button")
```

AI/ML



https://wooono.tistory.com/206

AI/ML

Features (x-Variable, Independent variable) Target (label)

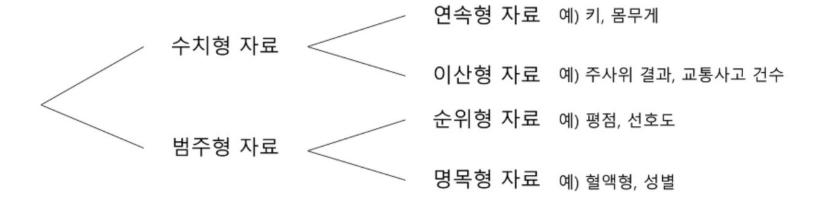
변수 Type

Categorical data

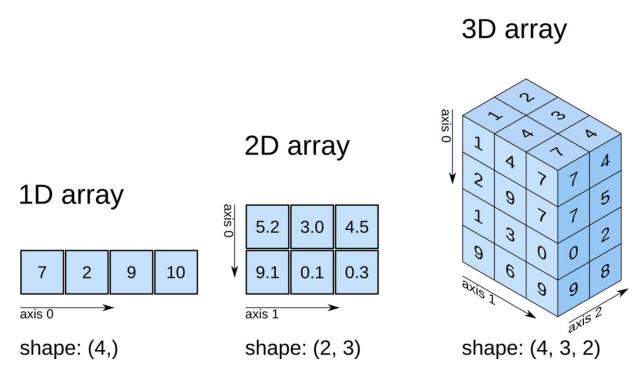
- 성별, 직업

Numerical data

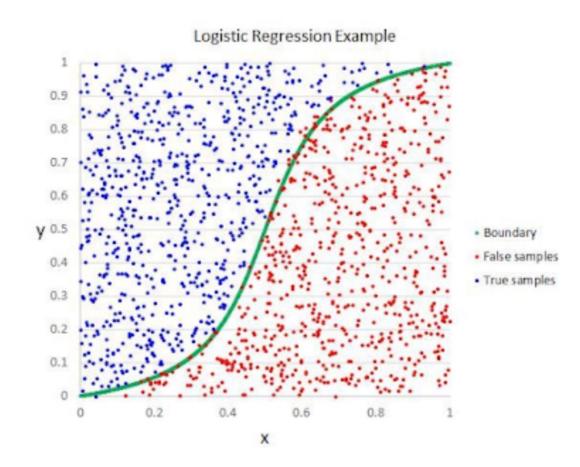
- 정수, 실수 등



Vector Matrix Tabular Dataset



https://www.oreilly.com/library/view/elegant-scipy/9781491922927/ch01.html



ML Explainable vs Interpretable 가용가능한 Resource 데이터 및 업무 활용 특징

XGBoost: → ····



ΑI



Decision Tree(LGBM, XGBoost) Support Vector Machine Logistic Regression

Pytorch Tensorflow

과거

- Domain(task) specific model
 - 긍/부정 판별, 개체명 인식, 스팸 등등...
- 적은 Resource
- PoC 작업 진행시 직접 데모 개발 및 시연
- Pre-trained model의 재학습
- 모델의 높은 자유도
- 약간 높은 진입장벽
- 연구개발자 전유물 (POC & 아카데믹적)

현재

- Foundation model
 - ChatGPT
- 매우 큰 Resource 필요
- API 호출 및 개발 (Langchain, Streamlit 등)
- Fine tuning or LoRA
- 모델의 아키텍쳐가 어느 정도 수렴
- 낮아진 진입장벽
- Everyone (Business Application) 개발

감사합니다