

eopingon x posco

K-Digital Training 스마트 팩토리 3기

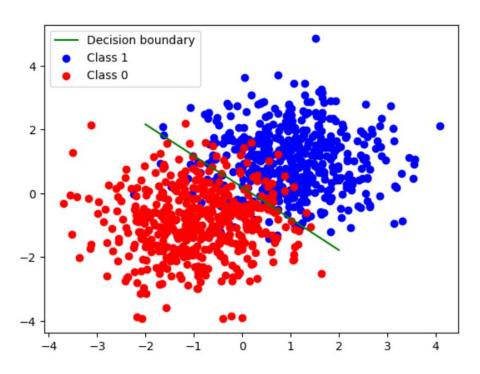
로지스틱회귀



https://colab.research.google.com/drive/1WtIki1KlmaZv11
 Wjn67fgAqPXikHaU-P?usp=sharing

```
# Define logistic regression model
class LogisticRegression(nn.Module):
    def __init__(self, input_dim, output_dim):
        super(LogisticRegression, self).__init__()
        self.linear = nn.Linear(input_dim, output_dim)

def forward(self, x):
    out = self.linear(x)
    out = torch.sigmoid(out)
    return out
```



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• 다음의 데이터가 있을 때 Decision Boundary를 찾고, [1,1] 은 어디에 속하는지 구하라

Label

2023-12-12

로지스틱회귀



• X

• [[-1.45911997 1.27418673] [-1.40811432 0.7656503] [-0.80951052 -1.65609373] [-2.12064621 -0.66898039] [-1.47889457 0.759705641 [0.21492267 -0.94078319] [-0.88723533 1.27909021] [-1.69760226 0.2121016] [-0.95780633 -1.46767931 [-2.10161186 -0.05177387] [-0.57325084 -1.35015894] [0.321193 -0.02985844] [-2.5735914 -0.87730766] $[-1.14876618 \ 0.61554048] \ [-1.38262269 \ 0.65768775] \ [-0.09595018 \ -0.40346164] \ [-0.76692811 \ 1.06812167] \ [-2.10942592] \ [-2.109$ -0.23163573] [0.55893733 -2.0168051] [-1.42934539 -1.8439296] [-1.84899277 0.29284397] [-1.00962409 1.14260845] [-1.80151453 -1.76488978] [0.41228357 2.37044324] [-1.96672657 -0.45787397] [-1.92263976 -0.07816785] [-0.68467409 1.31431729 [-1.72232541 0.34032824] [-1.61710431 0.55440197] [-0.50158669 1.46554165] [-1.13494826 -1.10274489] [0.04382985 1.99953558] [-0.91949553 -1.23405738] [-1.58958085 -0.66467512] [-1.15834408 0.86326863] $\lceil \ 0.19071829 \ \ 2.2581361 \ \ \rceil \ \ \lceil \ 0.85374174 \ \ 0.45121711 \rceil \ \ \lceil \ -0.78145505 \ \ -3.72642464 \rceil \ \ \lceil \ -0.69210519 \ \ 1.18544 \ \ \rceil \ \ \lceil \ -0.34269714 \rceil$ 1.841245141 [-1.16542994 -0.252094091 [0.03544744 -2.012974231 [-1.14895127 0.759419371 [-0.87448027 0.991197661 $[-0.95218433 \ -0.7255449 \] \ [-1.44472745 \ 0.4203996 \] \ [-3.37909783 \ 0.90227751] \ [-0.33605416 \ -0.58055418] \ [-1.30653111]$ 0.6841973 | [-0.53596756 -1.06203261] [-2.24105517 -2.66497083] [-0.8418934 -1.36697538] [0.11185643 1.80990919] $[-0.08704842 \ 1.79826469] \ [-0.32179094 \ 1.38840766] \ [-0.77115091 \ 1.44962084] \ [\ 1.53582237 \ -1.35952342] \ [-0.77137009] \ [-0.7$ 0.95041669] [0.95817687 - 1.68111971] [-0.17508112 1.94450501] [0.27983489 2.15449013] [-1.10311345 - 2.30164911] [-1.89651215 -0.06786658] [1.02369385 2.91761024] [-3.44086677 -1.22134089] [-0.16503895 1.81466655] [-0.87149586]-0.69110736] [-1.3967273 0.61158218] [-1.01744934 0.81087452] [-0.88416906 -0.49424196] [0.66587906 -1.09206153][0.39747262 -1.82237472] [-1.01832839 -1.60005169] [0.33371829 2.35165976] [-0.55109541 1.04295984] [-0.0300587]-0.89092092] [-1.31928433 -0.12198647] [-1.6115414 0.23596121] [-1.00895151 0.82914492] [-2.0375607 1.07077242] $[0.54660097 \ 2.58059711] \ [-2.26540046 \ 0.70234877] \ [-3.77092541 \ -0.58113997] \ [-2.2225742 \ -0.25879024] \ [0.12957675]$ -1.11474827 [-0.94312631 -1.7764906] [0.19677121 2.32058808] [-1.80386855 -0.07024802] [-3.15024419 -0.37787135] [0.09356338 2.1447265] [-0.28862204 1.78649941] [1.15354602 3.19128357] [-2.30889422 0.23218934] [-1.41098943 0.61757286] $[-0.78790862 \ 1.28282852$] $[-0.73590709 \ 1.40162745$] $[-0.8181465 \ -0.4159796 \]$ $[-3.51742052 \ -1.22222597]$ [-3.08756883 -2.49000395] [0.70101383 2.94258516]]

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