확률적 경사 하강법

대이터 이 하 공가. ) 기존의 모델은 어떠 하는 바 얼?

=) 학報 湖 하장명. ( HYPY PAIX)

=) जुनावि के जुनके मिन मिन (知計分

회 경우 target data 와의 거리를 이용해 성감하는 정의한 수 있지만 발생인 겨우 예측 확원 도영해 성원 정의한다.

(4-1 32/64) 201)

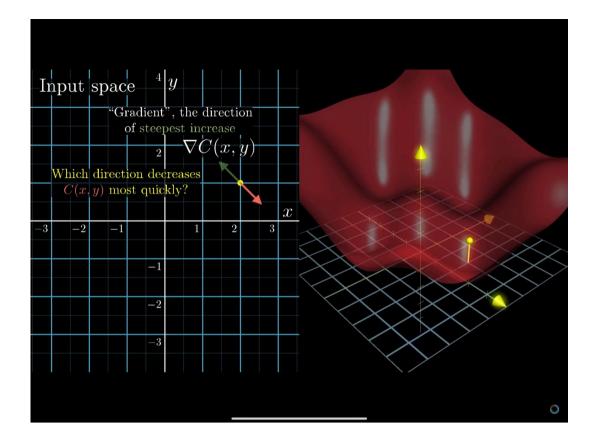
# Gradient.

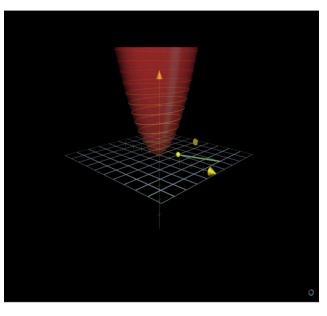
$$\uparrow = (\frac{1}{2}, \frac{1}{2}, \frac{1}{2})$$

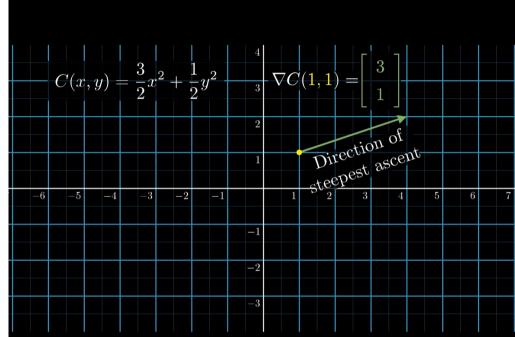
at 
$$\chi_0$$
,  $V \in \mathbb{R}^{\frac{1}{2}}$  at  $\chi_0$  at  $\chi_0$ ,  $\chi_0$ ,  $\chi_0$ ,  $\chi_0$  at  $\chi_0$  at  $\chi_0$ ,  $\chi_0$  at  $\chi_0$  at  $\chi_0$  at  $\chi_0$  a

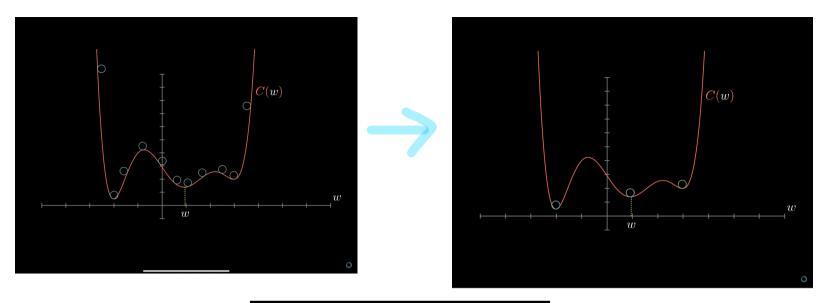
maximum when 
$$0=0$$
.

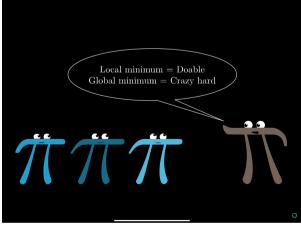
 $(Pf/N)$ .

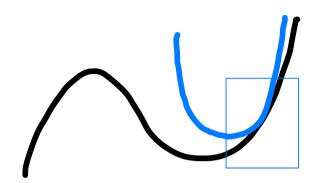


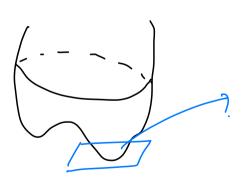


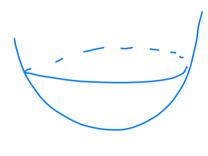












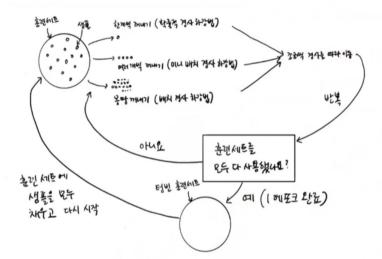
2种马昭显 三外。

$$f(x_0) = \frac{1}{2} f''(x_0) + f'(x_0) + f(x_0)$$

$$F(x) = F(0) + \chi^{T} (grad F) + \frac{1}{2} \chi^{T} / \chi.$$

$$[\chi \quad y] \begin{bmatrix} f_{xx} & f_{xy} \\ f_{xy} & f_{yy} \end{bmatrix} \begin{bmatrix} \chi \\ y \end{bmatrix}$$

Symmetric l semi-positive definite.



## Stochastic

