7倍好 H(w.b)=Wx+b 完 W>2,b⇒1 7/也到到 W=1, b=0 到时 强军性形 → Cost(W,b) 站 비율함수 $Cost(W,b) = \frac{1}{m} \times \frac{m}{i=1} \left(\frac{W + b}{i} - \frac{y_i}{i} \right)^2$ 최소계곱번 GSt=22+3+42 29(到例帳) 部體別 min 盖(WZ+b-y;)~ GNEX graph りかみ Cost H1 1/10|44| (651720| 1/10|47492 491 Optimum' . ラユ 的财理 (7)制 给他 经到(1/1分) GSTA 制 学吧 坚强(Wb改) $\frac{1}{b}$ Global

Optimum

7/

Data input
$$Wx + b$$
 $V = W - X \cdot \frac{\partial Cost(w, b)}{\partial w} \Rightarrow 2$
 $Cost(w, b)$
 $Cost(w, b$

$$\sum X_{i}Y_{i} = \sum X_{i}W + \sum X_{i}b$$

$$\sum Y_{i} = \sum X_{i}W + \sum b$$
by the fall x

$$\left(\begin{array}{ccc}
\Xi X_{i}^{2} & \Xi X_{i} \\
\Xi X_{i} & m
\end{array}\right)
\left(\begin{array}{c}
W \\
D
\end{array}\right) = \left(\begin{array}{c}
\Xi X_{i} \\
\Xi Y_{i}
\end{array}\right)$$

$$AB = C$$

$$B = A^{1}C \rightarrow \text{High of the first with }$$
"
$$\Xi \text{and } \vec{\xi}$$
"
$$\Xi \text{and } \vec{\xi}$$

$$W = \frac{\mathcal{M} \cdot \mathbb{Z} \mathcal{I}_{i} / - \mathbb{Z} \mathcal{I}_{i} \cdot \mathbb{Z} / \dots \times \mathbb{Z}}{\mathcal{M} \cdot \mathbb{Z} \mathcal{I}_{i}^{2} - \mathbb{Z} \mathcal{I}_{i} \cdot \mathbb{Z} / \dots \times \mathbb{Z}} \div \mathbb{M}^{2}$$

=
$$\frac{F(xy) - F(x)F(y)}{F(x^2) - F(x)F(y)} = \frac{(a(x,y))}{Var(x)} \frac{\partial f(x)}{\partial x}$$

$$\begin{array}{c}
\Xi b = \Xi / i - \Xi / i \cdot W \\
M b = \Xi / i - \Xi / i \cdot W \\
b = \Xi (Y) - \Xi (X) \cdot W
\end{array}$$

$$X: \Gamma = 3$$
 $F(x) = \frac{1213}{3} = 2$
 $Y \Gamma = 3$ $F(x) = \frac{3+517}{3} = 5$

$$Cov(X,Y) = \frac{1}{n} \sum_{i=1}^{n} (X_i - avg_x) (Y_i - avg_y)$$

$$= \frac{1}{3} |V-2X_3-5| + (2-2)(5-5) + (3-2)(7-5)|$$

$$= \frac{1}{3} (2+0+2) = \frac{1}{3}$$

$$Var(X) = \frac{1}{n} \sum_{i=1}^{n} X_i^2 - avg_x^2$$

$$= \frac{1}{3} - 4 = \frac{2}{3}$$

$$v(X) = \frac{1}{3} - 4 = \frac{2}{3}$$

$$v(X) = \frac{1}{3} - 4 = \frac{2}{3}$$

$$v(X) = \frac{1}{3} - 4 = \frac{2}{3}$$

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