

| | | age | sex | bmi | bp | s1 | s2 | s3 | s4 | s5 | s 6 |
|----|----------|-----------|-------------|------------|------------|-------------|------------|-------------|------------|------------|------------|
| 22 | alpha | | | | | | | | | | |
| 1 | 0.0000 | -9.160885 | -205.462260 | 516.684624 | 340.627341 | -895.543596 | 561.214523 | 153.884780 | 126.734314 | 861.121395 | 52.419828 |
| J | 0.0001 | -9.071288 | -205.337332 | 516.780313 | 340.539730 | -888.652320 | 555.952271 | 150.585260 | 125.453044 | 858.639860 | 52.379002 |
| • | 0.0010 | -8.264924 | -204.213177 | 517.641106 | 339.751339 | -826.653342 | 508.609613 | 120.899583 | 113.924518 | 836.314382 | 52.011583 |
| | 0.0100 | -1.361404 | -192.944226 | 526.348511 | 332.649058 | -430.205495 | 191.277876 | -44.048113 | 68.990747 | 688.384976 | 47.939528 |
| | 0.1000 | 0.000000 | -113,976046 | 526.737112 | 292.635423 | -82.691928 | -0.000000 | -152.691332 | 0.000000 | 551.077200 | 7.169852 |
| 1 | 1.0000 | 0.000000 | 0.000000 | 363.882636 | 27.278420 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 336.135971 | 0.000000 |
| 1 | 10.0000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 0.000000 | 0.000000 |
| • | 100.0000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 1 | 000.0000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 10 | 000.0000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 0.000000 | 0.000000 |



nitishksingh24@gmail.com —

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| J | 0.0001 | -9.071288 | -205.337332 | 516.780313 | 340.539730 | -888.652320 | 555.952271 | 150.585260 | 125.453044 | 858.639860 | 52.379002 |
|----|----------|-----------|-------------|------------|------------|-------------|------------|-------------|------------|------------|-----------|
| | 0.0010 | -8.264924 | -204.213177 | 517.641106 | 339.751339 | -826.653342 | 508.609613 | 120.899583 | 113.924518 | 836.314382 | 52.011583 |
| | 0.0100 | -1.361404 | -192.944226 | 526.348511 | 332.649058 | -430.205495 | 191.277876 | -44.048113 | 68.990747 | 688.384976 | 47.939528 |
| | 0.1000 | 0.000000 | -113.976046 | 526.737112 | 292.635423 | -82.691928 | -0.000000 | -152.691332 | 0.000000 | 551.077200 | 7.169852 |
| 1 | 1.0000 | 0.000000 | 0.000000 | 363.882636 | 27.278420 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 336.135971 | 0.000000 |
| 1 | 10.0000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | 100.0000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 1 | 000.0000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | -0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 10 | 000.0000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.0000000 | 0.000000 | -0.000000 | 0.000000 | 0.000000 | 0.000000 |

Simple
$$\begin{array}{c}
x \mid y
\end{array}$$

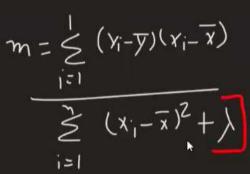
$$\begin{array}{c}
y = m \times + b \\
x \mid y
\end{array}$$

$$\begin{array}{c}
b = \overline{y} - m \overline{x}
\end{array}$$

$$\begin{array}{c}
m = \frac{\pi}{|x|} (y_i - \overline{y})(x_i - \overline{x})
\end{array}$$

$$\begin{array}{c}
\overline{y} \rightarrow mean(y) \\
\overline{x} \rightarrow mun(x)
\end{array}$$

$$\begin{array}{c}
\overline{z} \quad L \times i - \overline{x})^2 \\
\overline{z} \quad L \times i - \overline{x}
\end{array}$$



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nitishksingh24@gmail.com



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$$b = \overline{y} - m\overline{x}$$

$$\overline{y} \rightarrow meam(y)$$

$$\overline{x} \rightarrow meam(x)$$

$$b = \overline{y - mx}$$
 $m = ?$

$$m = \sum_{i=1}^{n} (y_i - \overline{y})(x_i - \overline{x})$$

$$\frac{1}{4} = \frac{1}{2} \left(\frac{1}{1 - mx_1 - y + mx_1} \right)^2 + 2\lambda \frac{1}{1 - mx_1 - y + mx_2} \left(-\frac{1}{1 - x_1 + x_2} \right) + 2\lambda \frac{1}{1 - x_2}$$





$$\nabla \nabla + \nabla$$

$$L = \sum_{i=1}^{n} (\gamma_i - \hat{\gamma_i})^n + \lambda |m|$$

$$\frac{1}{4m} = \frac{2}{[-1]} (y_i - mx_i - y + mx)^2 + 2\lambda [m] - 2 \leq (y_i - mx_i - y + mx)(-x_i + x) + 2\lambda = 0$$

$$f_2 \leq \left[(x_i - \overline{y}) - m(x_i - \overline{x}) \right] (x_i - \overline{x}) + 2\lambda = 0$$

$$- \leq \left[(Y_i - \overline{y})(X_i - \overline{x}) - m(x_i - \overline{x})^2 \right] + \lambda = 0$$

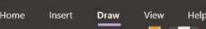
$$L = \sum_{i=1}^{\infty} (y_i - \hat{y_i})^2 + \lambda |m|$$

$$\int_{a_i} \int_{a_i}^{\infty} \frac{(y_i - mx_i - y_i + mx_i)^2}{\sqrt{1 - 1 - 1}} + \frac{2\lambda m}{\sqrt{1 - 1 - 1}}$$

$$2 \leq (\lambda' - mx^2 - \overline{\lambda} + mx)(-x^2 + x) + 2\lambda = 0$$

$$m \leq (x_i - \overline{x})^2 = \leq (y_i - \overline{y})(x_i - \overline{x})$$

$$m = \leq (\gamma_i - \overline{\gamma})(\chi_i - \overline{\chi}) - \lambda$$



$$- \leq (y_i - \overline{y})(x_i - \overline{\chi}) + m \leq (x_i - \overline{x})^2 + \underline{d} = 0$$

$$m = \underbrace{\geq (y_i - \overline{y})(x_i - \overline{x}) - \lambda}_{\underbrace{\geq (x_i - \overline{x})^2}}$$

for m>0

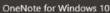
$$m = \sum (y_i - \overline{y})(x_i - \overline{x}) - \lambda \qquad m = \sum (y_i - \overline{y})(x_i - \overline{x})$$

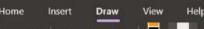
$$\sum (x_i - \overline{x})^2 \qquad \sum (x_i - \overline{x})^2$$

for
$$m(0)$$

$$m = \underbrace{\sum_{(y_i - \overline{y})^{(x_i - \overline{x}) + \lambda}}_{(x_i - \overline{x})^2}$$

 $\leq (x_i - \bar{x})^2$























$$m = \sum_{i=1}^{n} (x_i - \overline{y})(x_i - \overline{y})$$





$$m = \sum (y_i - \overline{y})(x_i - \overline{x})$$

$$\leq (x_1^{-1}x)^{-1}$$

$$m \rightarrow$$



$$\frac{m}{\sqrt{2}} = \frac{\sqrt{2}(x_1 - \overline{x})^2}{\sqrt{2}(x_1 - \overline{x})^2}$$

$$\begin{cases} \chi = 50 \\ \chi^2 = 50 \end{cases}$$

$$\lambda = 0 \quad | \lambda = 10$$

$$m = \frac{2}{5} \quad | m = \frac{9}{5}$$

$$\lambda = 50 \quad m = 1$$

$$M = \frac{YX + \lambda}{X^{2}} = \frac{100 + \lambda}{50}$$

$$= \frac{100 + 150}{50} = \frac{100 +$$

m-5





$$m = \frac{10b-\cancel{8}}{50}$$

1>0

$$m = \sum_{x=3}^{1} (y_i - \overline{y})(x_i - \overline{x}) + \sum_{x=3}^{1} (y_i - \overline{y})(x_i - \overline{x})(x_i - \overline{x}) + \sum_{x=3}^{1} (y_i - \overline{y})(x_i - \overline{x})(x_i - \overline{x}) + \sum_{x=3}^{1} (y_i - \overline{y})(x_i - \overline{x})(x_i - \overline{x})$$

$$m \leq 0$$
 $m = \sum_{i=1}^{\infty} (y_i - \overline{y})(x_i)$

$$\leq (x_i - x_i)$$

$$m = -100 - 14$$

$$m = -\frac{100 + \lambda}{50}$$
 $\lambda = 50 m = -\frac{1}{1}$

$$\lambda = 150$$
 $m = 0 \rightarrow 1$



50























$$m = -\frac{100 + \lambda}{50}$$
 $\lambda = 0$ $m = (-2)$ $\lambda = 150$, $m = -5$

$$\frac{m}{\sum_{i=1}^{N}} \frac{\left(\frac{1}{2} - \frac{1}{2}\right)^{i} \left(\frac{1}{2} - \frac{1}{2}\right)^{i}}{\sum_{i=1}^{N}} \frac{\left(\frac{1}{2} - \frac{1}{2}\right)^{i} + \left(\frac{1}{2} - \frac{1}{2}\right)^{i}}{\sum_{i=1}^{N}} \frac{\left(\frac{1}{2} - \frac{1}{2}\right)^{i} + \left(\frac{1}{2} - \frac{1}{2}\right)^{i}}{\sum_{i=1}^{N}} \frac{\left(\frac{1}{2} - \frac{1}{2}\right)^{i} + \left(\frac{1}{2} - \frac{1}{2}\right)^{i}}{\sum_{i=1}^{N}} \frac{\left(\frac{1}{2} - \frac{1}{2}\right)^{N}}{\sum_{i=1}^{N}} \frac{\left(\frac{1}{2} - \frac{1}{2}\right)^{N}}{\sum_{i=1}^{N}} \frac{\left(\frac{1}{2} - \frac{1}{2}\right)^{$$

$$\leq (\chi_i - \overline{\chi})^2 + 0$$

Lasson > numerono

