Modèle:
$$\hat{y} = \beta_0 + \beta_1 \times \frac{Datuset}{2} \cdot \left\{ (x_{i_1}y_{i_1}) : i_{i_1, -N} \right\}$$

On derive RSS $(\beta_0, \beta_1) = \frac{\hat{\Sigma}}{2} \cdot (\hat{y}_{i_1} - y_{i_1})^2$

$$= \frac{\hat{\Sigma}}{2} \cdot (\beta_0 + \beta_1 \times i - y_{i_1})^2$$

P. r. $\hat{\sigma}$ $\hat{\beta}_0 = \hat{\sigma}$ $\hat{\delta}_0$ $\hat{\delta}_0$

$$\frac{\partial RSS}{\partial \beta_{A}} = \frac{\partial}{\partial \beta_{1}} \sum_{i=1}^{\infty} \left(\beta_{0} + \beta_{1} \times i - y_{i} \right)^{2}$$

$$= \frac{\partial}{\partial \beta_{1}} \sum_{i=2}^{\infty} \left(\beta_{1} \times i - (y_{i} - \beta_{0}) \right)^{2}$$

$$= \frac{\partial}{\partial \beta_{1}} \sum_{i=2}^{\infty} \left(\beta_{1}^{2} \times i^{2} - 2 \beta_{1} \times i + t^{2} \right)^{2}$$

$$= 2 \left(2 \beta_{1} \times i^{2} - 2 \times i + t^{2} \right)$$

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$$= 2$$

Remarques:

$$\sum x_{i} | y_{i} - \overline{y} \rangle = \sum (x_{i} y_{i} - x_{i} \overline{y})$$

$$= \sum (x_{i} y_{i} - x_{i} \overline{y}) - N \overline{x} \overline{y} + N \overline{x} \overline{y}$$

$$= \sum (x_{i} y_{i} - x_{i} \overline{y} - \overline{x} y_{i} - \overline{x} \overline{y})$$

$$= \sum (x_{i} - \overline{x})(y_{i} - \overline{y}) = S_{xy}$$

$$\sum (x_{i} - \overline{x}) = \sum (x_{i}^{2} - x_{i} \overline{x} + x_{i} \overline{x})$$

$$= \sum (x_{i}^{2} - 2x_{i} \overline{x} + x_{i} \overline{x})$$

$$= \sum (x_{i} - \overline{x})^{2} = S_{xx}$$