$$\chi^{2} = 2 (y-yfit)^{2}$$

$$= \frac{1}{2} (yfiti-yi)^{2}$$

$$= \frac{1}{2} (mxtb-yi)^{2}$$

$$+elee first driv, set=0.$$
when c

$$\frac{1}{2}\sum_{i}\left(\sum_{j=0}^{2}(x_{i}^{2})^{2}\right)^{2}\left(\sum_{j=0}^{2}(x_{i}^{2})^{2}\right)^{2}$$

$$\frac{1}{2}\sum_{i}\left(\sum_{j=0}^{2}(x_{i}^{2})^{2}+b\sum_{j=0}^{2}(x_{i}^{2})^{2}\right)^{2}$$

$$\frac{1}{2}\sum_{j=0}^{2}(\sum_{j=0}^{2}(x_{i}^{2})^{2}+b\sum_{j=0}^{2}(x_{i}^{2})^{2}$$

$$\frac{1}{2}\sum_{j=0}^{2}(\sum_{j=0}^{2}(x_{i}^{2})^{2}+\sum_{j=0}^{2}(x_{i}^{2})^{2}$$

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$$\frac{1}{2}\sum_{j=0}^{2}(\sum_{j=0}^{2}(x_{i}^{2})^{2}+\sum_{j=0}^{2$$

Define
$$CX = \frac{1}{N} \sum_{i=1}^{N} x_i$$

$$CXX = \frac{1}{N} \sum_{i=1}^{N} X_i^2$$

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$$c_y = \pi \sum_i y_i$$

$$c_{xx} + b_{xx} - \xi_y = 0$$

 $mc_x + b - c_y = 0$

$$b = cy - mcx$$

$$mex^2 + (cy - mex) cx - Gy = 0$$

$$m \left[C_{x^2} - C_x C_x \right] = \xi_y - C_y C_x$$

$$m = \frac{C_{x} - C_{y} C_{x}}{C_{x} - C_{x} C_{x}}$$

$$b = c_y - c_x \frac{c_{xy} - c_y c_x}{c_{xx} - c_x c_x}$$

$$= c_y - c_x (c_{xy} - c_y c_x)$$

$$= c_y - c_x (c_{xy} - c_y c_x)$$

$$= c_y (c_{xx} - c_x c_x) - c_x c_x$$

$$= c_x c_y - c_x c_x$$

$$= c_x c_y - c_x c_x$$

$$= c_x c_y - c_x c_x$$

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