* A form of mathematical regression analysis used to determine the line of bost fit for a set of data, providing a visual domaistration of the relationship between the data points.

* Each point represents the relationship between a known independent variable and unknown dependent variable.

Trelationship between PCA and least square

(2)PCA and pls

y= mx+b $m = \frac{n \cdot \text{Exy} - \text{ExEy}}{n \cdot \text{Ex2} \cdot \text{Exp}}$ $b = \frac{\text{Ey} - m \cdot \text{Ex}}{n}$

* it tries to minimize the sum of the offsets from the plotted curve.

* used to predict le behavisor of dependent voriables.

* create a straight line that minimizes the sum of the squares of the error, that are generated by the results of the associated equations such as equared residuals resulting from differences in the observed value and the value unticipated.

* if the data shows a linear relationship between two variables the line that best fits is least square regression lines

* it help to quantify the relationship between two or more variables.

* independent plotted on horizontal (x-axis).

epitheship and investing.

* prediction about related but unobserved values from the Same group or systam.

*instead of solving an equation exactly, mathematicians use the least Equale method to arrive at a close approximation. maximum like invodestimate

3 Difference between linear least square and linear regression
the adj Imear refers to different things.
* linear least square up a fit that is linear in the parameter
* linear regression of fitting a model that is a linear function of independent variable.
The principal of the pr