

Task 1: Linear Regression

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Introduction

Linear regression is a statistical method used to model the relationship between a dependent variable and one or more independent variables. It assumes a linear relationship between the variables. The model is estimated using a least squares method, which minimizes the sum of the squared residuals. The resulting model can be used to predict the value of the dependent variable for a given value of the independent variable.



Figure 1: Linear Regression

Mathematical Formulation

$$y = \beta_0 + \beta_1 x + \epsilon$$

Where y is the dependent variable, x is the independent variable, β_0 is the intercept, and β_1 is the slope.

Assumptions

- Linearity: The relationship between the dependent and independent variables is linear.
- Independence: The observations are independent of each other.
- Homoscedasticity: The variance of the residuals is constant across all values of the independent variable.
- Normality: The residuals are normally distributed.



- Linearity: The relationship between the dependent and independent variables is linear. This can be checked by plotting the data and visually inspecting the fit.
- Independence: The observations are independent of each other. This can be checked by plotting the residuals against the independent variable and looking for any pattern.
- Homoscedasticity: The variance of the residuals is constant across all values of the independent variable. This can be checked by plotting the residuals against the independent variable and looking for any pattern.
- Normality: The residuals are normally distributed. This can be checked by plotting the residuals against the independent variable and looking for any pattern.



Variable	Mean	Standard Deviation	Minimum	Maximum
x	10.0	2.0	5.0	15.0
y	20.0	4.0	10.0	30.0
Residuals	0.0	1.0	-2.0	2.0

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