

Task 1: Linear Regression

10/10/2024

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 regression line is fitted to the data points, and the equation of the line is used to predict the value of the dependent variable for a given value of the independent variable. The regression line is the line of best fit, and it is used to estimate the parameters of the linear model.



Figure 1: Scatter plot showing a positive linear relationship.

Linear Regression

$$Y = \beta_0 + \beta_1 X + \epsilon$$

Where Y is the dependent variable, X is the independent variable, β_0 is the intercept, and β_1 is the slope.

Assumptions

1. Linearity: The relationship between the independent variable and the dependent variable is linear. This is the most important assumption of linear regression. If the relationship is not linear, the model will not be able to capture the true relationship between the variables.

2. Independence: The observations are independent of each other. This means that the value of the dependent variable for one observation does not depend on the value of the dependent variable for another observation.

3. Homoscedasticity: The variance of the dependent variable is constant across all values of the independent variable. This means that the spread of the data points around the regression line is the same for all values of the independent variable.

4. Normality: The residuals (the difference between the observed value and the predicted value) are normally distributed. This assumption is important for the validity of the hypothesis tests and confidence intervals.

5. No multicollinearity: The independent variables are not highly correlated with each other. If there is multicollinearity, the model will have difficulty estimating the coefficients of the independent variables.

6. No perfect multicollinearity: The independent variables are not perfectly correlated. If there is perfect multicollinearity, the model will not be able to estimate the coefficients of the independent variables.

7. No autocorrelation: The residuals are not correlated with each other. This means that the value of the residual for one observation does not depend on the value of the residual for another observation.



8. No influential points: There are no observations that have a large influence on the regression line. Influential points are observations that are far from the rest of the data and have a large leverage.

9. No outliers: There are no observations that are far from the rest of the data. Outliers are observations that are far from the rest of the data and have a large leverage.

Table 1: Data

Table 2: Regression

Table 3: Residuals

Table 4: Summary

Table 1: Data	Table 2: Regression	Table 3: Residuals	Table 4: Summary
	Intercept		
	Slope		
	R-squared		
	F-statistic		

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