**Algorithm Used:-**

**Linear Regression:**

Linear regression is a fundamental statistical method used to model the relationship between a dependent variable (target) and one or more independent variables (features). The goal of linear regression is to find the best-fitting straight line (regression line) through the data points that minimizes the differences (errors) between the observed values and the values predicted by the line.

**Key Concepts:**

* **Dependent Variable (Target):** The variable we are trying to predict (in this case, the number of followers).
* **Independent Variables (Features):** The variables used to make predictions (in this case, the number of followings and the number of posts).
* **Regression Line:** The line that best fits the data points.
* **Mean Absolute Error (MAE), Mean Squared Error (MSE), R-squared (R²):** Metrics used to evaluate the performance of the regression model.
* **Linear regression** is used to model the relationship between the number of followers and the features (number of followings and posts).
* **Training the model** allows it to learn this relationship from the data.
* **Evaluating the model** helps assess its accuracy and effectiveness in making predictions.
* **Visualizing the predictions** provides a clear understanding of how well the model performs.