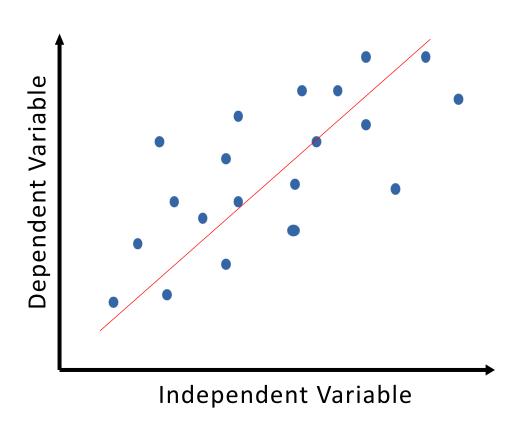
## Linear Regression



## **Liner Regression:**

Linear regression is a statistical method used to model the relationship between a dependent variable and one or more independent variables. The goal of linear regression is to find the linear equation that best fits the data, and which can be used to predict future values of the dependent variable.

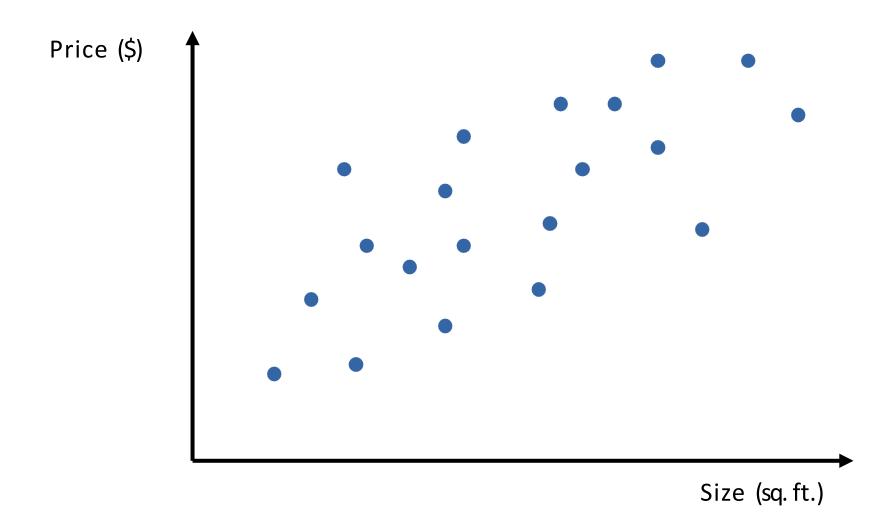
## **Example: Predicting price of house**

Dependent Variable : Price of House

Independent Variable: Total Area, #Bed-Rooms, #Floors



Plot:



Formal Definition:	
Input:	
Output:	
Parameters:	
Regression:	
Loss:	

0	ptimi	zation:
_	<b>-</b>	_0.0.0

Loss: