Regression is **a technique for investigating the relationship between independent variables or features and a dependent variable or outcome**. It's used as a method for predictive modelling in machine learning, in which an algorithm is used to predict continuous outcomes.

Sirnow I will be explain Lenear regression with the help of an example lets us Suppose there is a company we need Their Annual Sale ….

Their must be multiple factors which are Dependent variable and independent Variable which are affecting annual sale so building a connectin or relationship betten these variable so the best method is Regression

Y- Dependent Variable, x-Indipedent Varible

-In our project Dependent variable is in numeric and continious value wich is (Price)

Simple Leniar regression

Y=C+MX (Grapical representation of simple L.R.)

C and M are the cofffiesient of lenear regression

Multiple Leniar regression (There are multiple factors affecting our Price )

y= α0+ α1.X1 + α2.X2 + α3.X3

α- is Regression Cofficient

sklearn.model\_selection import train\_test\_split

The train\_test\_split function of the sklearn. model\_selection package in Python **splits arrays or matrices into random subsets for train and test data**, respectively.

**R2 (coefficient of Leaniar regression )Score is a very popular metric used for evaluating the performance of linear regression models (predicted value And rare value )**

**One hot Encoder - in turn improve predictions as well as classification accuracy of a model**.(It changes categorical values into numericall )

Seabon (use for Graphical And plotting)

Sir From Hear I will be delivering The Methodology part …

We will be disscusiion about how we processedd are data and come with the final filtered data

After fetching the record from kaggle we imported it into python and implement multiple

pandas and seaborn libraries for study and visualize this part will be further described in our ppt in the part working model