Surple linear Régrission \* Predict continuous numerical value

\* Dataset & Salary with Respect to less & employees A Importing the libraires impost numpy as no import matplothis. pyplot as plt impost foundas as pol A Importing The Dataset dataset = pel·read\_ccv ('Salaey-data.cn')

X = dataset ilr [:,:-1] value y = dataset. ilor (;, -1]. values t Splitting tone Dataset into training & lat hel from skleam. model selection impost train-text split Xtrain, X test, y train, y test = train test split (X, y, test. ske = 1/3, random\_state=0) Faring the simple linear Regression model on The Training fom Aclean. linear model inpol Linear Regression Regnesson-Linear Regnession () scignesser. fil (xtrain, ff train)

\* Predicting the test set herute Y-Bried = reguessor. friedrick (X text) A Misualising the training set Results Plt. scatter (Y.train, y train, wor - 'red') Plt. plot (X\_train, regressor. predict (X=train), color='blue') Plt. title ('Salary us Experience (Trainingsot)') plt. x label ('years of Experience')
plt. ylabel ('salary') Salay Up Exp. plt. ehow ()

Plt-scatter (X. test, y-test, color-red')

Plt-plot (X. test, y-test, regressor.predict (X. test),

Plt-plot (X. test, y-test, regressor.predict (X. test),

Color-'Khe')

Plt-title ('Salary VIs Exp(Test Set)')

Plt-Xlasell ('years of Experience')

Plt-show()

The linear Regnession frequently asked questions

(1) How do I use my simple linear Regnession model to make a single prediction for Ex, to feeled the Ralay of an employee weller 12 years of Experience?

(2) How do I get final regression squation y= bo + 6/2 weiter the girly values of the Coefficients bo and bo!

Ane I join (regresser, predict ([[12]]))

A rabue of feature (12 years) was put in a double pair of square brackets. That's because the predict metrod always expect a 20 away as the format of its inputs.

Ans 2: point (negresser, coef.) -> [9345.22]
point (negresser, intercept.) -> 26816.192

: Eq! Salary = 9345.22 x years 1 coxp + 268/6.192