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,	Assignment - C3
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#	Title: Bigmaxt sales Analysis.
*	Problem statement 1- fox data comprising of transaction records of
h	sales store. The data has 8523 rows of 12 variables. Predict the sales of store.
*	Objectives:
1d ,	· learn regression algorithms.  · learn to summarize the properties the dectaset.
	· learn to split the dataset into training and test datasets.
	· learn to develop a posedictive regression model.
**	Outcomes: students will be able to develop a predictive model
-	for sales of an item at BigMart.
•*	SIW & HIW Requirements:
	• as: 64-bit Ubuntu 18.04.3- Ar androine righted
	• Python 3 • Jupytex Notebook / noogle colaboxatory.
- project	* Kaggle, Kaggle CT, SKleann, Pandas, Matplotlib, Pylanet,
*	Theory:
	Linear Regression: - On statistics, linear Regression is a linear
As	approach to modelling the relationship between a scalar
	response (ox dependent variable) and one or more explanatory
1,4	variable is called crimple linear regression. For more than one,

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	the provess is called " <u>multiple linear</u> regression".	/-/
	If the goal is prediction, forecasting or error reduction, linear regression can be used to fit a predictive model to an observed data set of values of response and explanatory variables. After developing such a model, if additional values of the explanatory variables are collected without an accompanying response value, the fitted value can be used to make a prediction of the response.	
	oiven a dataset of n statistical units, a linear regression model assumes that the relationship between dependent variable y & the p-vector of regressors x in is linear.	
	Dotaset = { yi, xi, xip } i=1	
	model Equation:  yi = Bo + Bixi + + Bpxip + Ei = xiB + Ei i=1	· · · · · · · · · · · · · · · · · · ·
	matrix Notation => y = XB +E	
	$y = \begin{cases} y_1 \\ y_2 \\ x_2 \end{cases}$ $x = \begin{cases} x_1 \\ x_2 \end{cases}$ $x_1 = \begin{cases} x_2 \\ x_3 \end{cases}$ $x_1 = \begin{cases} x_2 \\ x_3 \end{cases}$ $x_1 = \begin{cases} x_2 \\ x_3 \end{cases}$	<b>通</b> 持续 经付款 英
*	DataSet Decraption:	
	The data scientists at BigMaxt have collected 2013 sales data for 1889 products across to stores in different cities. Also, certain attributes of each product and store have been	
	defined. The aim is to build a psedictive model and find out	
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