Splitting The Dataset Into Dependent And Independent Variable In machine learning, the concept of dependent variable (y) and independent variables(x) is important to understand. Here, Dependent variable is nothing but

output in dataset and independent variable is all inputs in the dataset. With this in mind, we need to split our dataset into the matrix of independent variables and the vector or dependent variable. Mathematically, Vector is defined

- 1. The independent variable in the dataset would be considered as 'x' and the 'homepage_featured', 'emailer_for_promotion', 'op_area', 'cuisine', 'city_code', 'region_code', 'category' columns would be considered as independent variable.

In [122]: features = columns.drop(['num orders']) trainfinal3 - trainfinal[features]

X -trainfinal3.values

Let's split our dataset into independent and dependent variables.

2. The dependent variable in the dataset would be considered as 'y' and the 'num_orders' column is considered as dependent variable.

as a matrix that has just one column.

In [122]:	trainfinal X -trainfi	columns.drop(['nn 3 - trainfinal[fe nal3.values inal['num_orders'	atures]							
To [123]:	trainfinal	3.head()								
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Out[123]:		e_featured emailer_fo	r_promotion o	p_area co	risine city_	code region	code cat	egory		
			or_promotion o	p_area co	isine city	code region	_code cat	egory		
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		e_featured emailer_fo	0	2.0	3	647 647	56 56	0 0 0 0		