eid	esal	location	prochased	Deal
1	Nan	Mumbai	0	with Approximation
2	2000	NaN	1	
3	3000	Chehnai	NaN	
4	५७००	Bangalox		
Numeric coln Numeric coln column! — drop record. Imputation — most freq - mean				

ML Preprocessing Task

1) Load the data and sepair on non-numerical ving Randas.
(2) missing data analysis and sepair on non-numerical ving Randas.
(2) Seperated the data as features and label.
(numpy) (numpy)

Deal with missing Data (numeric column)

sblears → Imputer (always accept numbers as input)

If a non-numeric column has a missing data and

you are compelled to handle the same, recommended

step is

a most frequent (mode)

use pandos — (2

@ Dealing with Cotegorical Data.

Shearn -> Label Encoder 7

One Hot Encoder -> Durning columna
(Binary)

- (E) tranding Numeric Data.

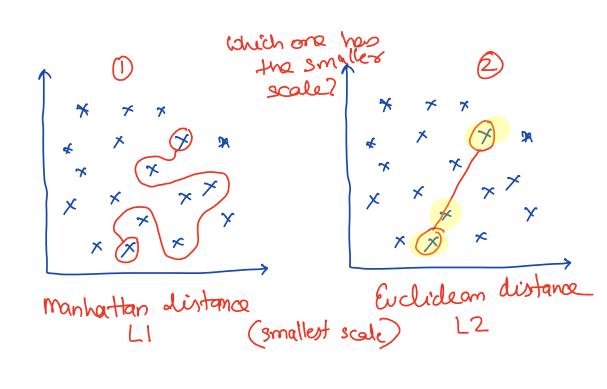
 All ML algo expect your FEATURES to follow a common scale. To achieve this reqt. we use FEATURE SCALING.
 - O Rescale the feature in a limited range decided by you.
 - ② Standardire the data such that mean is 0 and standard deviation is 1.
 - 3 No inalize the data using OLI normalization
 - 1 L2 normalization
 - a Rescaling the feature.

Ideally all practitioners expect your clote to be scaled of

$$ai = \frac{\alpha i - \min(\alpha)}{\max(\alpha) - \min(\alpha)}$$

Standar dization:

$$2i' = \frac{2i - 2}{\sigma} \rightarrow \begin{cases} z & \text{shows this} \\ \text{shows this} \end{cases}$$



- your data reights is being maintained

- ophmization is the