Topics for the day

O Numpy and Pandas Intro

O Data preprocessing techniques

Numpy -> Numerical Rythen

deal with arrays. Captimized - memory

consumption,

CPU speed)

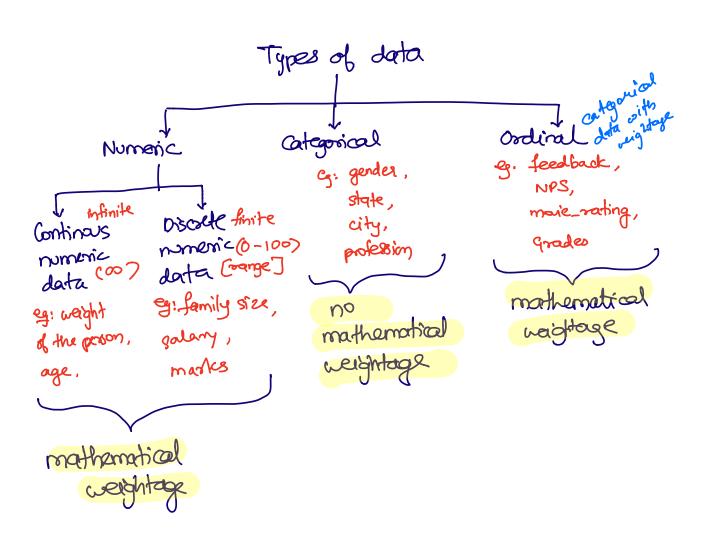
utilization

- (1) One dimensional array
- 2 Two dimensional array

length width nobedrooms city proce pands

Machine Learning.

- 1) File most hold Logically structured data.
- 2) All your data must be shrictly numeric.



madrine learning program implementation steps
1) Loading the data
6 Pre processing activities & EDA
and the later as teamses and per
$h_{ij} \propto k_{0ij}$
© Deal with missing data.
Statistics as a base (continue mineric data) O Replace NaN with mean (discrete numeric data)
@ Replace NaN with median (discrete numeric data) @ Replace NaN with median (discrete numeric data)
3 Replace Nair Will 17
a christica Comique
@ Devide the actual to
if column data is strong, rately it is assistant
if loubed how missing data, delete that specific
rewed
String Data (Randling missing data)
Oftenical / Rose string
Ordinal Pose string Ordinal Delete 17
Use mode (2) roade complet so

3 Dealing with Categorical Data Cookin of Dummy 1) get the unique values of variables) eg: eid esal early cortegorical column. 1000 mumbai -[mumbai', chemai] 2000 Chemai => 2 Soft the list in ascending order ['chemai', 'mombai'] 3 Replace the values of the adomn with the index values of the list created in Step 2. ECICOPING @ Corners the column relies into column itself such that the columns are loosing mathematical reightagen DNE-HOT ENCODING $\left(\begin{array}{c} M, C, H, B \\ \end{array}\right) \rightarrow b, C, H, M$ 0 1 2 3 end esal 0 0 1 0 10 1000

