## Cocating a ML Bogsam 1) Load the data @ Pre-processing tasks me (3 your data must be complete algo ) Your data must be strictly nameric (skleam) (3) Your data must be in the form of numpy array. @ Statistical summary. (describe) (b) check for missing douter ( info) (b) check for missing dotta (into) mean median landle missing dotta (Importation) median default 1 Handling categorical data - Dummy variables @ flandling ordinal data > Encole the data and comment \* the ordinal data to diseasete numeric. > Ourmy variables (domain) (८१वीमझेर०) 3 Separate your data as features and label. Ensur the data is in the form of numpy array. (9=> Handle Numerical data, (Feature Scaling) This step is applicable for features. This step ensure your feature advirons follows a common statistical scale. (schering 1) Rescale your feature manually by defining a range (0 to 1) (-1 to 1) (Min Mars Scaler) > 2 Standardize your data (mean = 0, std = 1) (Standard Scales)

3 Normalize your data. (Manual method.... unitecale using numpy t reanhattan a The above step oncess your Scale is sedued, however your magnifude is unaffected. Rule: - for ml, if your algorithm uses distance formula len (a) Euclidean mos co @ manhattan @ Minkow iski [ Gradient Descent] for DL, feature scaling is mandatory for ANN. plane road/train

magnified zeroin some

100
1
200
300
9
400
Sceling is reduced