Lecture 10 Data Preparation Steps, Preprocessing the outliers & Jolyhoye error O's clip thropold Missing Data: to numic Value handling. rappie sveetor & Soul in non mension value

Le Color first vector un la one 12000 - wil belong umatric so cold who one More Methods L'es posses of sissurique (l'el fe or or) Yellow ___ 3 Red - 1 Est Mean 30 quence (136/16/2 10 CP(p) Feature Scaling: 5 normber Summary. Box Plot y Sort dolaset 2) Seled Mind Max 3) JOR 2012-MI Mediam 4) Lower Whit > O, -1.5 x IOR Mediani 5) upper want 2 03 + 15 x 70 R Inter Queral Range: IOR: 6) Nois Injection, Increse & dataset () Se s'é fil bodata office OSCHI OF I Nois InJection I method (Of Melordata Chilled of organal

= Scaling: of une attribute perdinide training of Fiteration (or Scaling Size Size (house 2000 /6000 4000/ 6000 made 6000 6000/6000 Formula, Scaling = Size (N) Feature Scaling Method: 6 CM Colume 2) Min - Man Scaling, Scaled feature deviction Scaling: 2 / { (x-u)'

Box Plot & Five Number Summery Dataset 2 [3,10,14,19,22,29,32,36,49,70] Step 1: Sort the clataset Dataset Sorted = [3, 10, 14, 19, 22, 29, 32, 36, 49]] Step 2: Five number Sammary 1- Minimum Value 24 First Quitial O1 (25/) 3) Median 4) Thrid Oustial (3 (75%) 5) Moviman. Step3: v Upper limit = Q3+1.5 (IOR)
= 36+1.5 (3) [= 103].69 2) Lower limit 2 On - 1.5 (IOR) = 14-1-5 (20) = (80) Step 4: Calculte O, Oz, IOR 1) Cl = 25 (Total Instance +1) $\frac{25}{100}(10+1) = \frac{275}{2} \left[\frac{2.75}{2.75} \right]$ $\frac{0}{100} \left[\frac{2.75}{100} \right] \frac{2.75}{2} \text{ replace } \frac{14}{14}$ 0, 275 (10+1) = 825 = 8.25 100 (10+1) = 825 = 8.25 7) IOR = 0, -0, reporce value [0,2 36 IOR = 822 0275 36-14

