Descriptue Statistics 8/12/23 Propolity -> Why? We analyze, understand and shape of the data we see A to 2 06 the data Statistis. But when it comes to probability we predict or forecast the data. Why Probability & Statistices I Rul World It is used for deasion blaking. Descriptive Statistics Statistical functions that describe the data the first Stop in this is EDA. Exploratory duta Analysis -> Mean -> Sum of eldn/ No of Hems -> Median - Middle Most dement $\frac{n}{2} + \left(\frac{n}{2} + 1\right)$ -> Mode - frequently Occured number

Mean - Average - + it it Median - Tells that about how soil of data awanged for Example Here sules 10 10 10 20 40 60 70 80 Here Median is 40 So here so by of people made the Sales with in 40 Rs., and other half made a sale which is greater than \$40 How many times it occurs - 10 20 30 40 50 60 70 D Median - 10 20 30 40 50 60 $\frac{1}{2}$ $\frac{1}$ $=\frac{8}{2}+\left(\frac{8}{2}+1\right)$ 3) 4 people - Average is 24 Three people Average - 20,22,200 Median age ?

quartiles helps us understand how the data is distribution. One of the Proportant Measure is 19R Inter Quartile Range [19R = 93-91] How 50% of Middle dorta distributed Upper limit in 19R = 93 + 1.5 *19P lower limit in 19R = 93 lower 9, Median 93 upper timit 25th timit Varience - Measure average Squared demortion of each data point from the mean those the data is spread according to the Standard demation - Root of Vanence

Kurtosis The measure of Peakedness of data Normal distribution the Kurtosis Meso kurtic leptokurtic thin ve kurtony flat Play ty kur tic 0 (3) , lepto+ (0 14 3 3 Charatersti Skew ness Understanding the spread of data with kurtosis. [Stewners ob data) respect to Positive Skew Negative Skow

