## Phase 1: - Statistical Foundation For Data Science Lec 1: Introduction to Statistics. What is statistics? -> - Statistics is a boanch of mathematics that involves the collection, organizations, analysis interpretation, & presentation of data. - It's used in many field to understand patterns, trends, and make informed decisions 1 Descriptive Statistics - bescription of the entire dataset - (Measure of Central tendency - Mean, median, Mode) - (measure of spread - 5D, Variance, Inter-Questile Range (IQR), Range) ( Cosselation Coefficient - (Data Distribution) - (Plots) 1 Inferential Statistics - Inferential word means conclusion - Population vs sta sample · Population means your entire data · Sample means small part of your entire data (Subset of the entire population) population your entire date (Sample) 4 Subset of entire population



