



IIT Madras
ONLINE DEGREE

Statistics for Data Science -1

Lecture 4.1: Association between two variables-Review

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Review

1. What is statistics?
 - ▶ Descriptive statistics, inferential statistics.
2. Understand how data are collected.
 - ▶ Identify variables and cases (observations) in a data set
3. Types of data-
 - ▶ Classify data as categorical or numerical data.
 - ▶ Measurement scales-nominal, ordinal, interval and ratio.
4. Describing categorical data
 - ▶ Creating frequency tables, understanding relative frequency
 - ▶ Creating pie charts and bar charts
 - ▶ Descriptive measures of Mode and Median
5. Describing numerical data
 - ▶ Creating frequency tables: single valued and grouped data.
 - ▶ Measures of central tendency: Mean, Median, and Mode
 - ▶ Measures of dispersion: Range, Variance, Standard deviation
 - ▶ Percentiles, Quartiles, Interquartile range.