What to do when we encounter missing data?

- First determine how much data is missing. So if a column has more than say 10% missing values then do we even want to consider it for analysis? Usually no. If a row has more than 10% missing values we may want to eliminate that data point. But if the number of missing values is below 10% (or another threshold) then we can replace the missing values with one of the methods below.
- 2. Replace the missing value with the mean value of the column, or the median, or the mode this is a very common method (with the mean)
- 3. Treat the column as a target variable, learn a regression model (like linear regression), and use the predictions to determine the missing values also called imputation
- 4. If a row has a missing value for a given column then make copies of that row and for each copy insert one of the known values from the other rows.