

Vatatypes: Structured data: Highly organized Information in duta base or can be search easily.
un stuctured data: opposite of structured that Vata acquisition: Direct approach: converted from realworld data into digitaldata. Indirect approach: can be found or bought. Handling missingdata: Global constant,
Ignoring, Impringer Inference approach. Littering noisy data: Identifyout lier andremoving -Munging or Wrangling: Involves reformating data into us able format.

Reduction · Data Cube Aggregation. · Dimensionality Reduction. Discretization · Wominal · ordinal · Continuous Conversions · Onehot Encoding · Feature Construction Normalization · min - max . Z-Score · Sculing Above techniques do not need domain experts but, Smoothing, Generalization, Feature Construction need domain experts

- info () gives into about columns and null values. Labelen coder is for ordinal and categories is meaningful One Hot encoding is for nominal and categories are not meaningful