Data Preparation

St. Joseph's University, Bengaluru

Basics of Data Science

Redundant White Space

Fixing Capital Letter

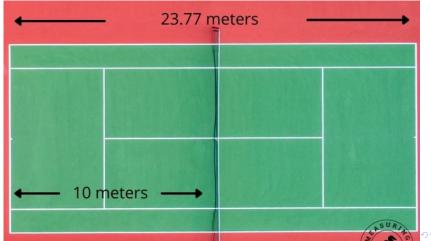
Case Matters!

 $"\mathsf{Brazil}" = "\mathsf{brazil}"$

"HE" = "he" = "He"

Impossible Values and Sanity Checks

"My data has a 10m in height, 300yr old man!"



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Outliers



Missing Values

Technique	Advanatge	Disadvantage
Omit the Values	Easy	Loss of infomration
		Not applicable to
Set Value to Null	Easy	all models
Impute a static value	Easy No loss of information	Can lead to false estimates
Impute a theoretical value	Does not disturb the model	Harder to execute Data assumptions are made

Deviations from a Code Book

eatures					
ATTRIBUTE NAME	ROLE	TYPE	DESCRIPTION	UNITS	MISSING VALUES
sepal length	Feature	Continuous		cm	false
sepal width	Feature	Continuous		cm	false
petal length	Feature	Continuous		cm	false
petal width	Feature	Continuous		cm	false
class	Target	Categorical	class of iris plant		false