

## Data Cleaning



"Data cleaning is the process of identifying, deleting, and/or replacing inconsistent or incorrect information from the database."

https://www.iteratorshq.com/blog/datacleaning-in-5-easy-steps/

# Data Quality Revisited



Now we see data quality not as an attribute of source data, but as an output of data cleaning

https://www.iteratorshq.com/blog/datacleaning-in-5-easy-steps/

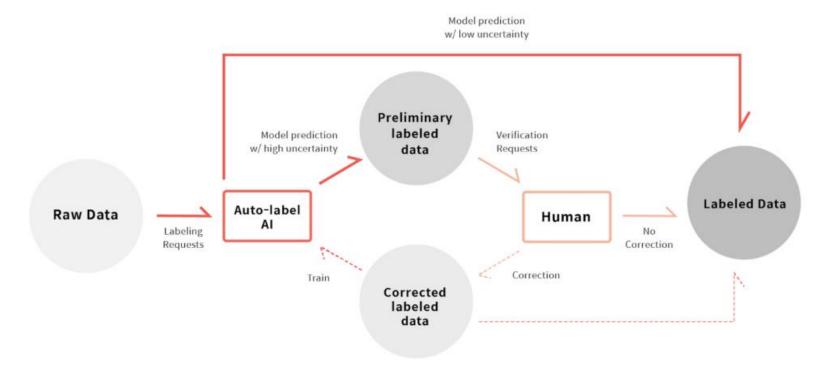
# Data Cleaning Workflow

"An example of a typical data cleaning workflow, featuring a series of operations performed on the data repeatedly until reaching sufficient data quality."



https://www.iteratorshq.com/blog/datacleaning-in-5-easy-steps/

## Classification and Naming



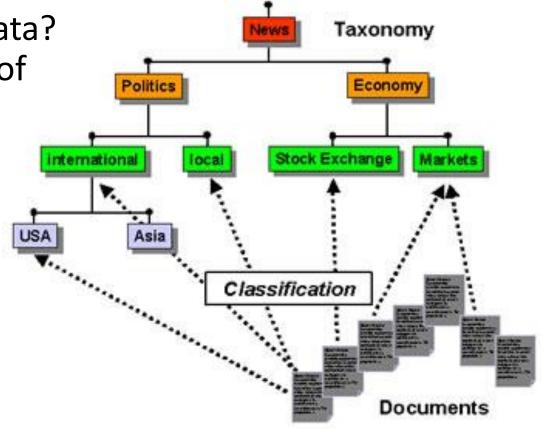
Classification and naming are essentially operations performed as a part of labeling in AI, that is, using human-readable signs that interpret a specific piece of data.

# Taxonomies, Ontologies and Natural Kinds

Is there a 'right' way to label data? Do we all agree on what kinds of

things there are in the world?

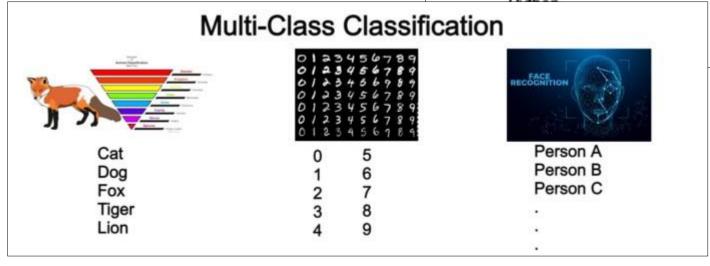




# Classification Algorithms

- Binary classification
- Multiclass classification
- Multilabel classification





### Popular Classification Algorithms:

- Logistic Regression
- Naive Bayes
- K-Nearest Neighbors
- Decision Tree
- Support Vector Machines

https://medium.com/swlh/3-types-of-classification-problems-in-machine-learning-1cffd3765ca1 https://monkeylearn.com/blog/classification-algorithms/