



# Big Data Course

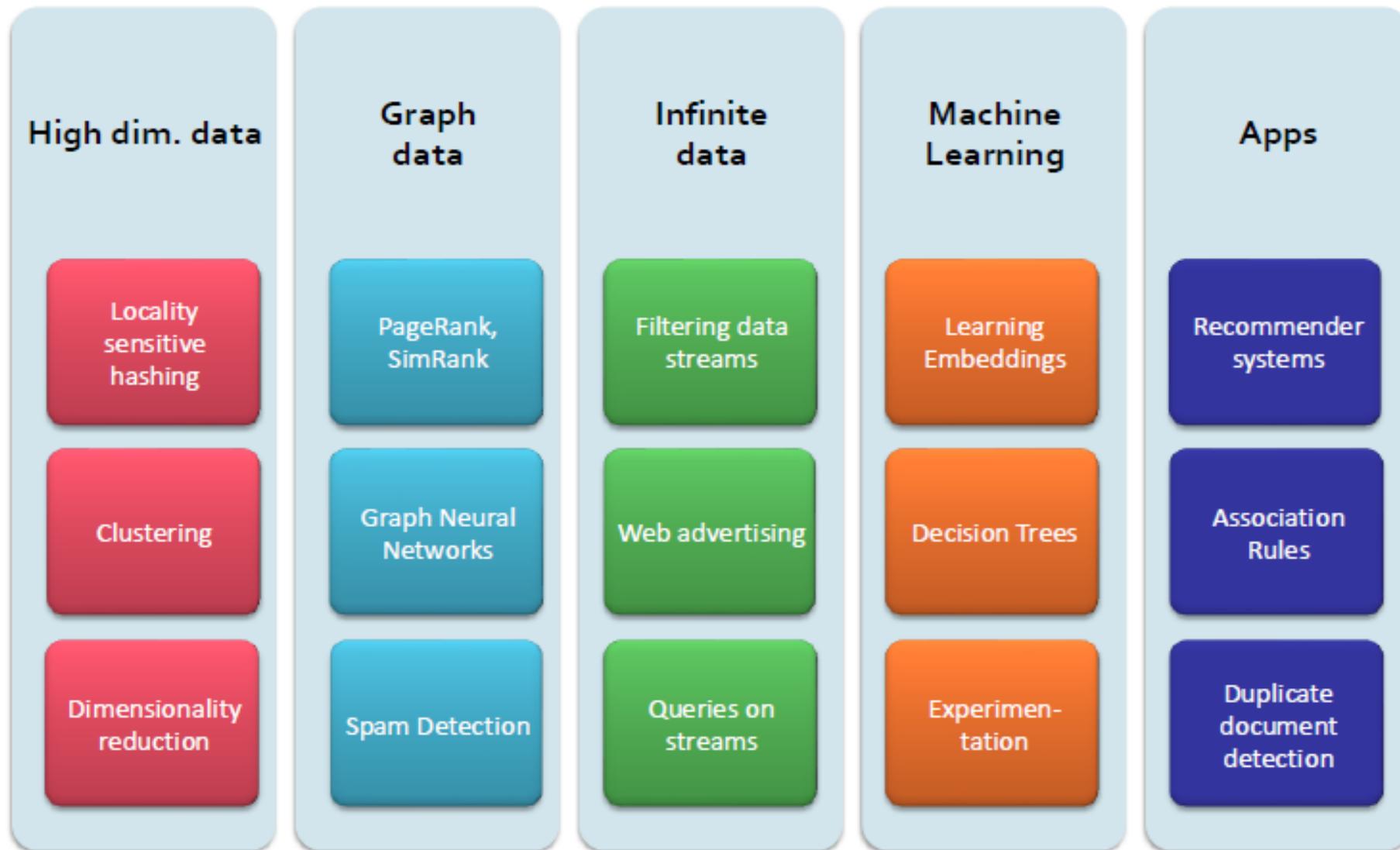
## Chap 3- Types of data

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# How the Class Fits Together



مراحل آماده سازی داده

(پیش پردازش)

# Common Data Preparation Tasks

**Step 1:** Define Problem. ◇

**Step 2:** Prepare Data. ◇

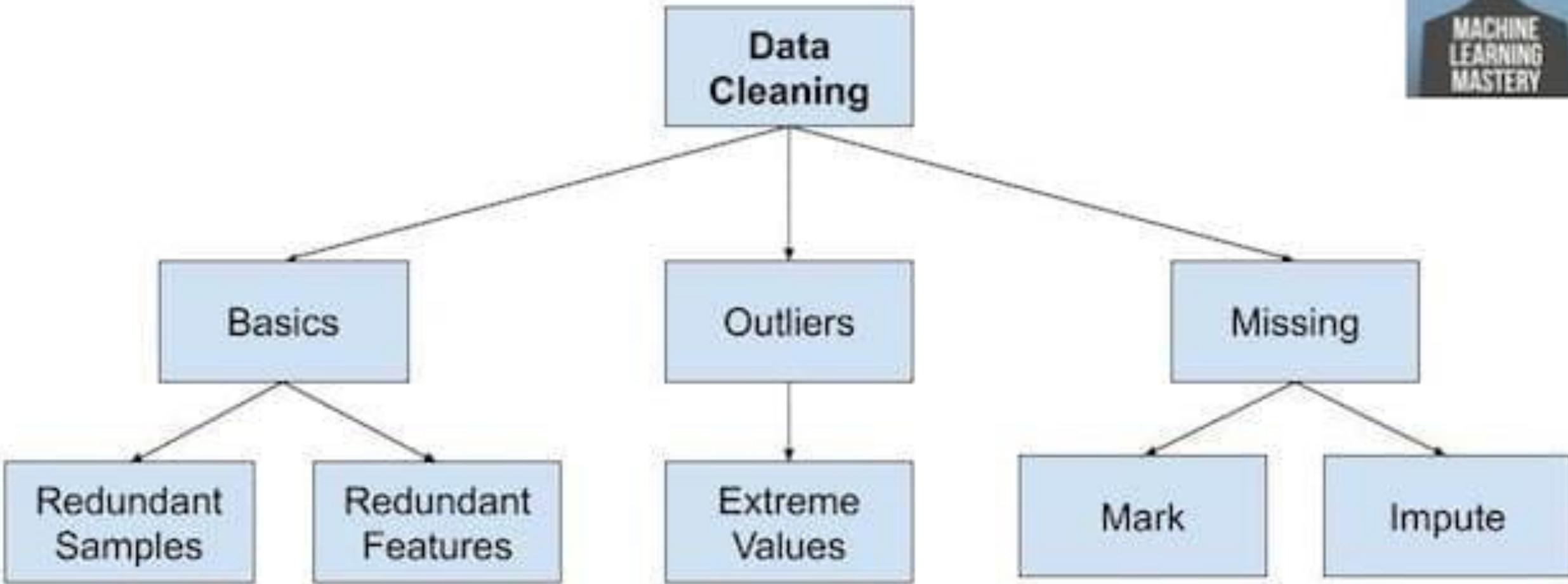
**Step 3:** Evaluate Models. ◇

**Step 4:** Finalize Model. ◇

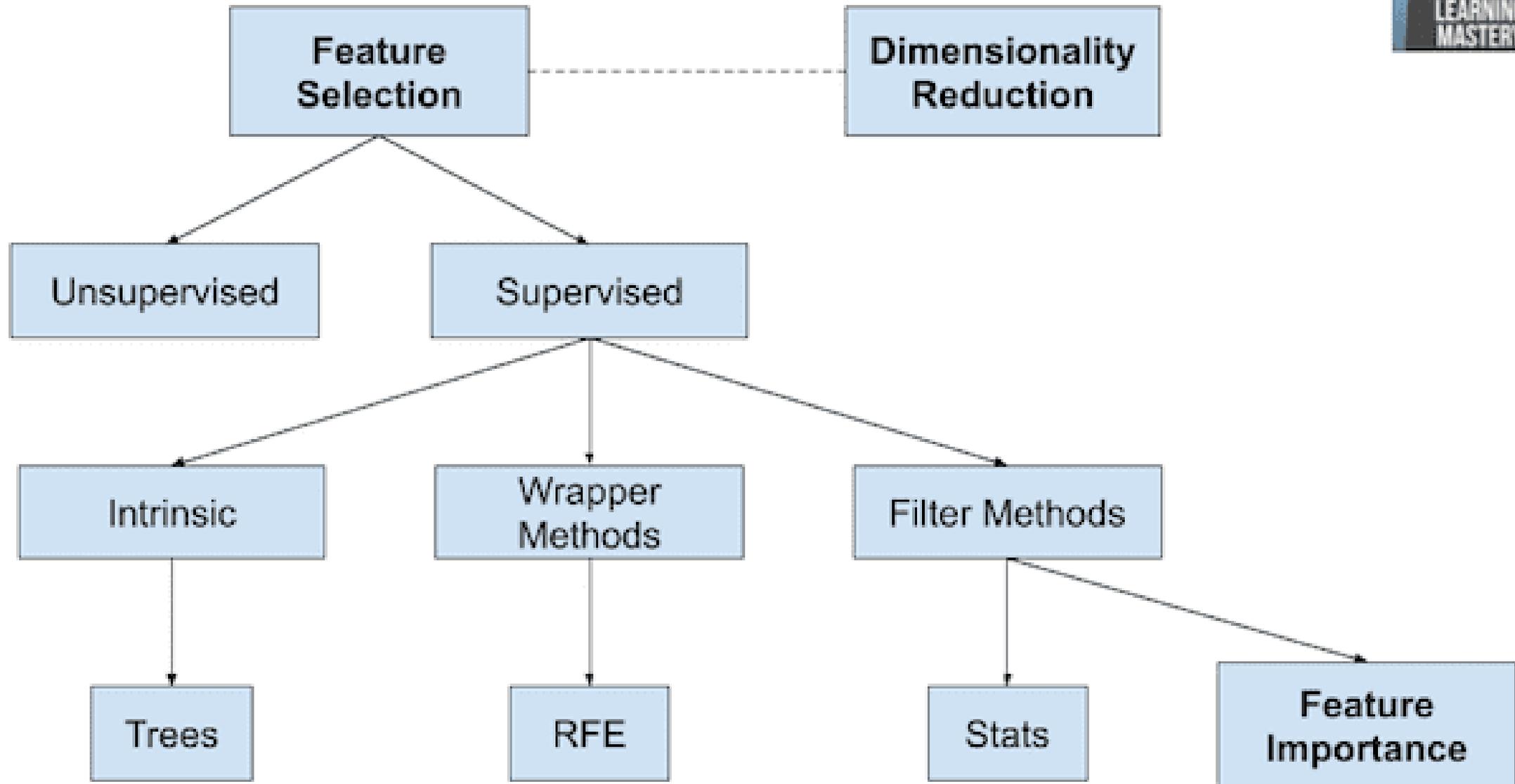
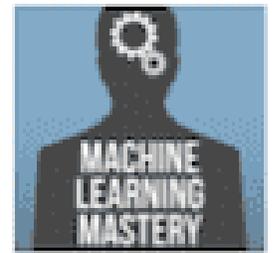
# Prepare data

- **Data Cleaning:** Identifying and correcting mistakes or errors in the data.
- **Feature Selection:** Identifying those input variables that are most relevant to the task.
- **Data Transforms:** Changing the scale or distribution of variables.
- **Feature Engineering:** Deriving new variables from available data.
- **Dimensionality Reduction:** Creating compact projections of the data.

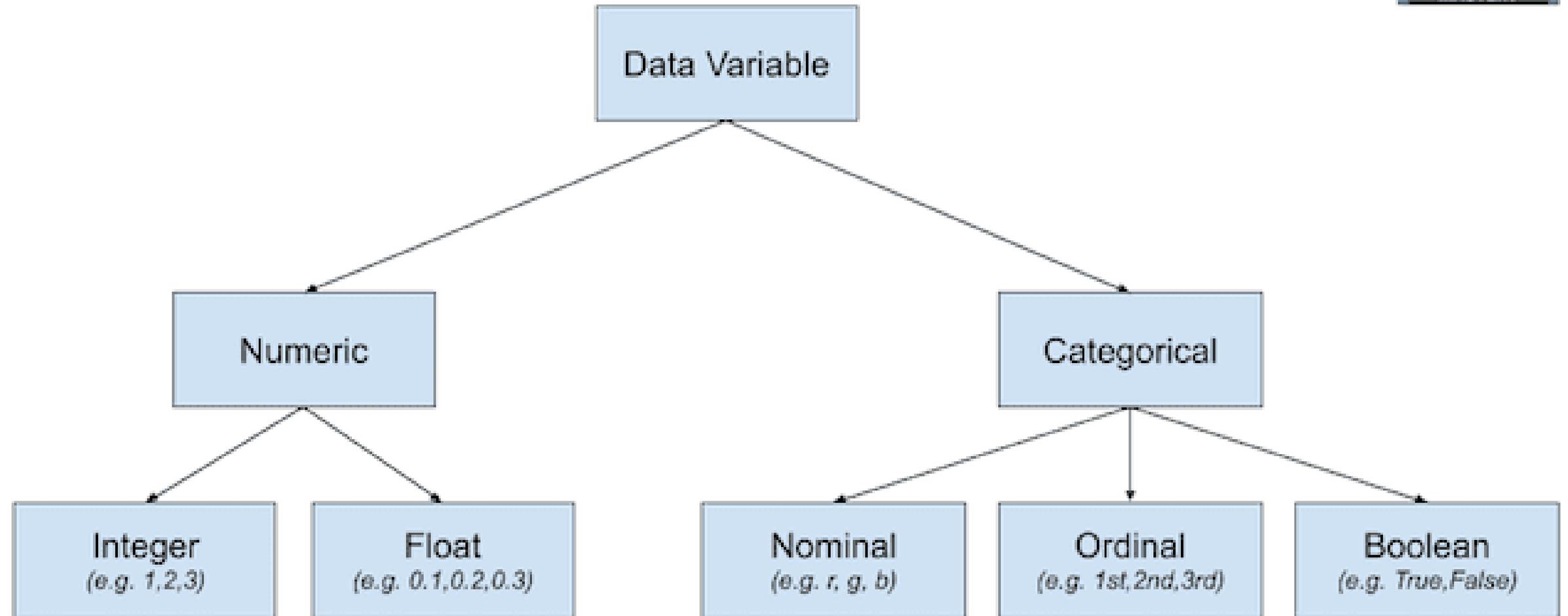
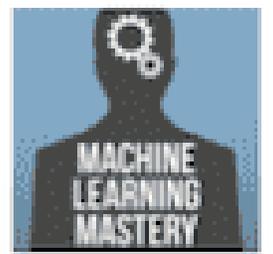
# Overview of Data Cleaning

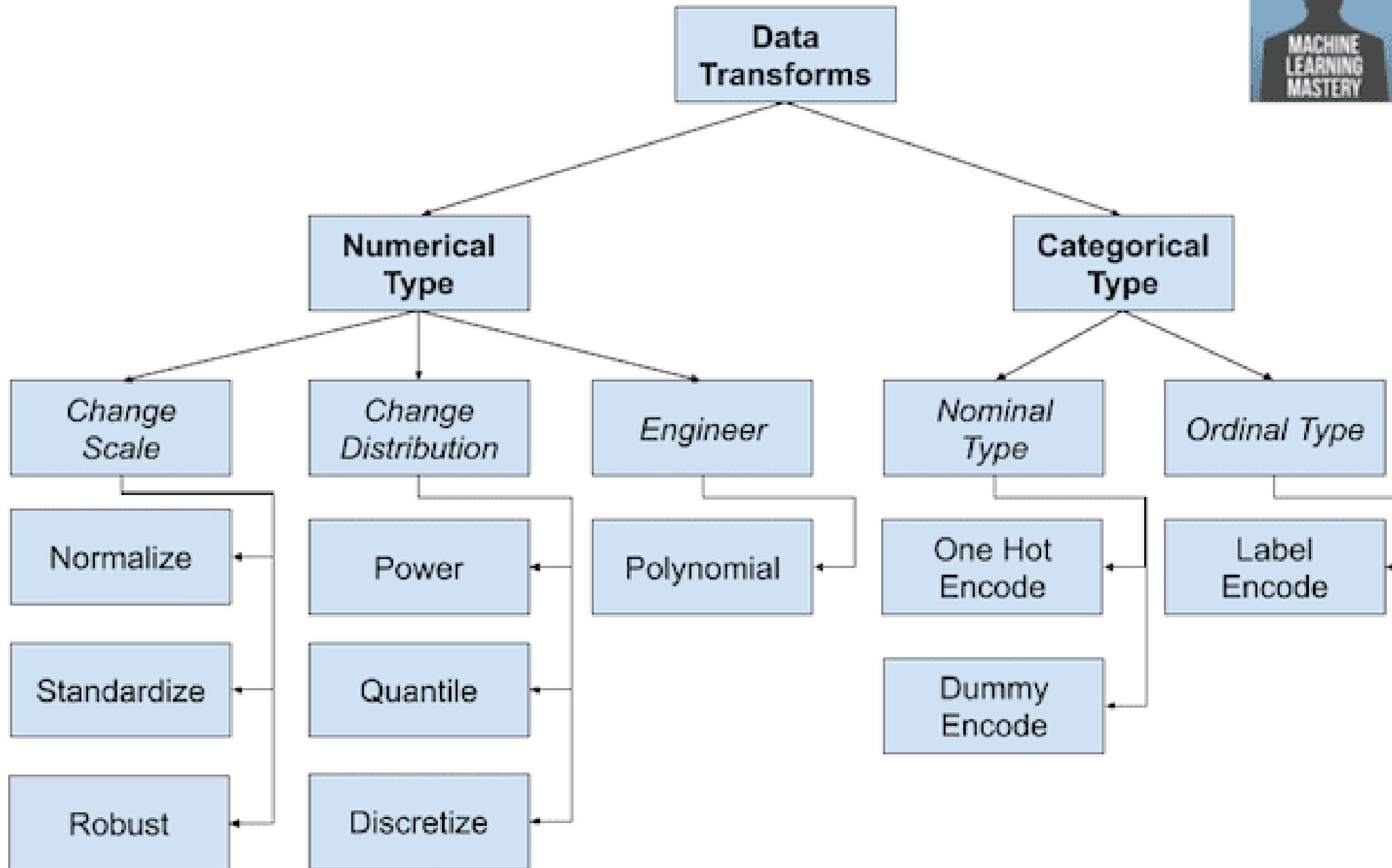
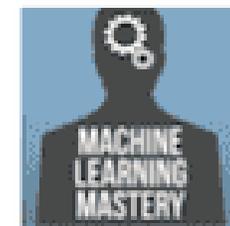


# Overview of Feature Selection Techniques



# Overview of Data Variable Types





# Overview of Dimensionality Reduction Techniques

