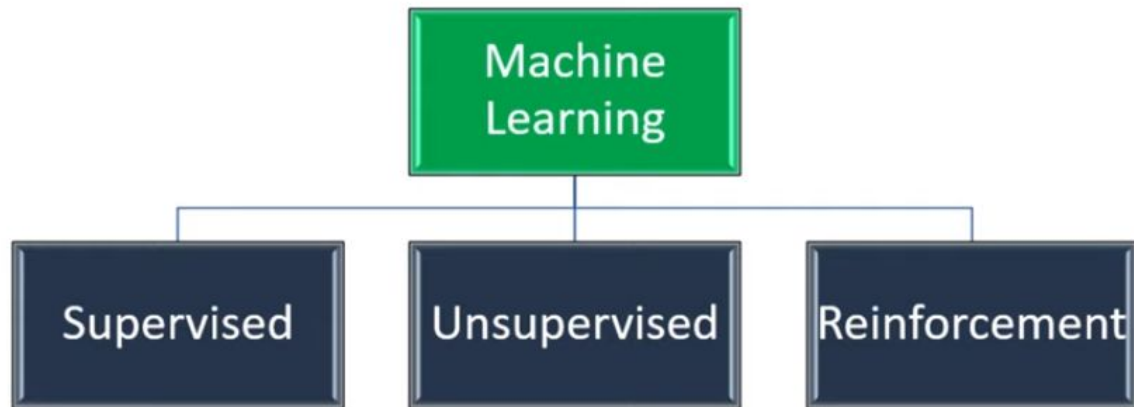


# Types of Machine Learning in Artificial Intelligence



# Supervised Learning

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**Supervisor**



**Addition**

$$2 + 2 = 4$$

$$5 + 3 = 8$$

# Supervised Learning

Supervised learning is when the model is getting trained on a labelled dataset.

**Supervisor**



**Dataset**

| Input | Output |
|-------|--------|
| 2     | 4      |
| 2     |        |

# Supervised Learning

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**Training Model**



**Predicting with new data**

# Supervised Learning

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## 1. Regression -Continuous Value



## 2. Classification -Categorical Value



# Supervised Learning

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## 1. Regression

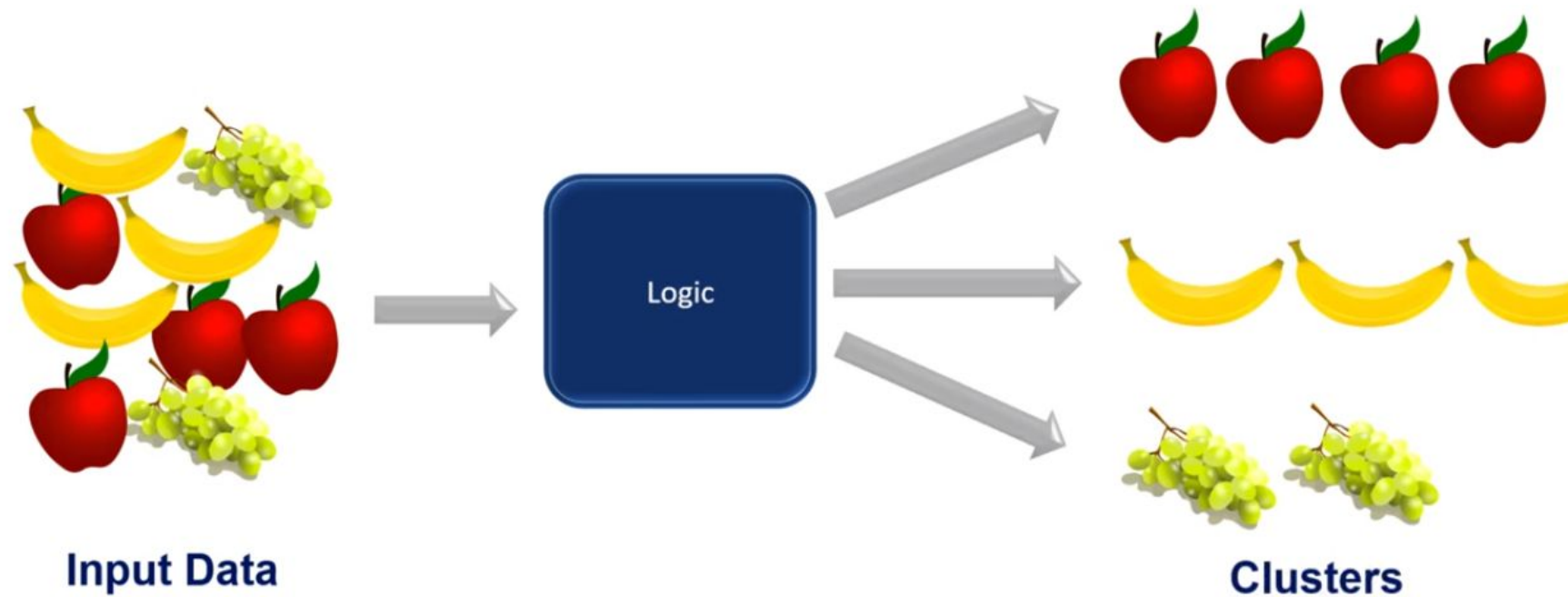
- Linear Regression
- Multiple Linear Regression
- Polynomial Regression
- Support Vector Regression
- Decision Tree Regression
- Random Forest Regression

## 2. Classification

- Logistic Regression
- K-Nearest Neighbors (KNN)
- Support Vector Machine (SVM)
- Naïve Bayes
- Decision Tree Classification
- Random Forest Classification

# Unsupervised Learning

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# Unsupervised Learning

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## 1. Clustering

- K-Means Clustering
- Hierarchical Clustering

## 2. Association

- Apriori
- Eclat