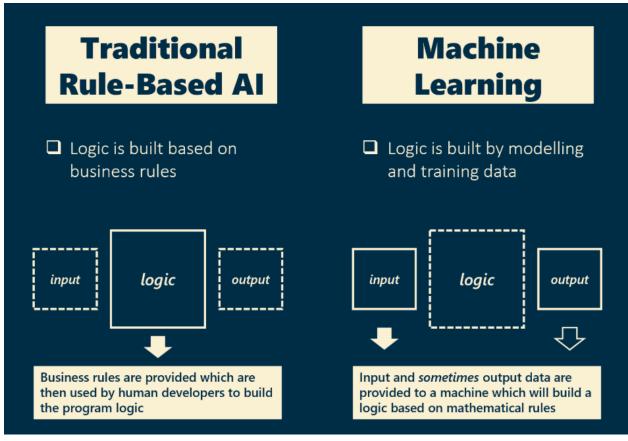
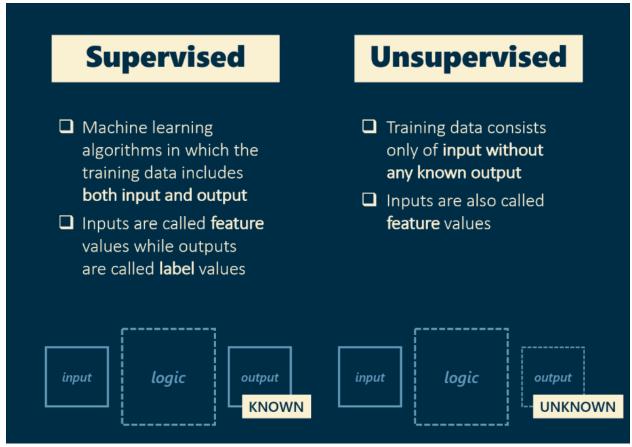
#### **MODULE 3: Machine Learning**





#### Regression

# **Binary Classification**

## Multiclass Classification

- ☐ The label predicted by the model is a numeric value
- Example: A model that predicts the price of an apartment based on the size, number of rooms, barangay, and date of building
- ☐ The model predicts whether a record is an instance of a specific class or category
- □ Example: A model that predicts whether a customer will cancel their subscription
- □ The model predicts
  whether a record is an
  instance of one of
  multiple classes or
  categories
- □ Example: A model that classifies whether a social media post is positive, negative, or neutral

## **Unsupervised Machine Learning**

### **Clustering**

- Model identifies similarities between observations based on their features and groups them into discrete clusters
- ☐ Example: A model that groups existing customers into clusters based on age, location, gender, social media usage, and purchasing behaviour

### **Others**

- Anomaly detection
- □ Generative models
- □ More...

