Machine learning models can learn in two main ways:

1️⃣ **Instance-Based Learning** (IBL) → "Memorizing"
2️⃣ **Model-Based Learning** → "Learning a Pattern"

Instance-Based Learning (IBL) 📌

- The model **memorizes** past examples and makes predictions by **comparing new data** to stored examples.
- It does **not create a general rule**, just **stores and compares**.
- Works well when **similar past examples** exist in the data.

Model-Based Learning 📊

- The model **learns a pattern** (or rule) from the data.
- It does **not store all examples** but **creates a general formula**.
- It can **predict for new cases**, even if it hasn't seen them before.

When to Use What?

We always use Model-based Learning in the real World.