

Training Data

- 📌 Training Data is the **information AI learns from**.
 - ✅ **AI studies patterns in data** to make future decisions.
 - 💡 **If Training Data is bad, AI decisions will be bad.**
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🔍 How AI Learns from Training Data

AI learns like a student studying examples.

- 1️⃣ **AI is fed training data** (millions of examples).
- 2️⃣ **AI finds patterns** and relationships in the data.
- 3️⃣ **AI uses patterns** to make predictions.

📌 **Example:** Train AI on **thousands of emails**, and it learns how to **auto-reply to customers**.

📌 Real-World Example: AI in Retail Sales

- 📌 **Scenario:** AI predicts future sales for Patrick's company.
 - 🔴 **Bad Training Data:** AI is trained only on **holiday sales data**, so it assumes every month is December.
 - ✅ **Good Training Data:** AI is trained on a **full year of sales** for accurate predictions.
 - 💡 **Better Training Data = Smarter AI decisions.**
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📌 3 Golden Rules of Training Data

- ✓ **Quality Over Quantity** – AI needs **clean and relevant data**, not just more data.
- ✓ **Diversity Matters** – AI should learn from **varied sources** to prevent bias.
- ✓ **Up-to-Date Data** – AI decisions should be **based on fresh data**, not outdated trends.

📌 **Good AI starts with great data.**

📌 Why Training Data Must Be Tested

- 🔴 **Problem:** AI isn't always right—what if it learned the wrong thing?
 - ✅ **Solution:** Before using AI, businesses must test it with **Testing Data**.
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