


# Parameters

## Parameters Help AI Make Smarter Decisions

AI doesn't just use raw data—it fine-tunes its **internal settings**, called **Parameters**, to adjust how it makes predictions.

 *Think of Parameters like adjusting the dials on a soundboard. Too much bass or too little treble can ruin the mix—just like bad Parameter settings can ruin AI predictions.*

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## Why Parameters Matter:

- ✓ **Better AI decisions** – Parameters control how AI analyzes data.
- ✓ **Fewer false positives** – AI learns to avoid unnecessary alerts.
- ✓ **More accurate predictions** – Proper tuning ensures AI makes reliable choices.

### ✓ Examples of Good vs. Bad Parameter Tuning:

- ✓ **AI detecting fraud**: Good tuning = AI catches fraud without blocking good customers. Bad tuning = AI either blocks everyone or lets fraud through.
  - ✓ **AI analyzing medical scans**: Good tuning = AI finds real disease risks. Bad tuning = AI gives too many false positives or misses real cases.
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## How AI Adjusts Parameters for Better Performance

AI adjusts Parameters in three ways:


- 1 **Manual Tuning** – Experts adjust settings based on results.
- 2 **Automated Testing** – AI runs multiple versions of itself to find the best settings.
- 3 **Self-Learning Models** – AI automatically fine-tunes itself over time.

 *Well-tuned Parameters = AI that performs better over time.*

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## Real-World Example: AI in Healthcare

### Medical AI Needs the Right Parameter Settings!

- ✓ **Good Parameters** = AI correctly flags high-risk patients while minimizing false alarms.
-  **Bad Parameters** = AI either floods doctors with unnecessary alerts or misses critical cases.

AI must be **continuously refined** to maintain accuracy and trust.

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