

Reflection and Discussion

One time, I noticed that my electric guitar was making a static buzzing sound whenever I plugged it in. At first, I thought the problem was with the guitar cable because it looked a bit old and twisted. I even borrowed another cable to test it, but the buzzing sound was still there. Later, I found out that the real problem was the guitar's input port, which had a loose connection. My first conclusion was wrong because I didn't have enough information at the start, and I changed it after discovering the true cause.

This experience is similar to **non-monotonic reasoning in AI**. In this kind of reasoning, an AI system forms a conclusion based on the information it currently knows, but when new facts are added, it can change that conclusion. Just like I updated my belief after learning the truth about my guitar, AI systems also revise their decisions when they receive new or more accurate data. This makes their reasoning more flexible and realistic.