When Labels Go Wrong

Have you ever called someone by the wrong name and felt a little embarrassed?
Now imagine if a robot did that-but a million times in a row!

That's what can happen when an **AI system** learns from **bad labels**.
Before an AI can recognize things like dogs, smiles, or traffic signs, humans
have to label thousands of pictures, words, or sounds to teach it what's what.
But if people label things the wrong way, the AI learns the wrong lessons.

Let's look at an example.
A group of engineers wanted to build an AI that could tell cats and dogs apart.
They collected thousands of pet photos and sent them to be labeled.
But some labelers were in a hurry-or maybe they were tired-and they accidentally tagged a few cats as "dogs."
When the AI started learning, it became totally confused.
Sometimes it called a cat a "dog" just because it saw pointy ears!

Later, when the engineers tested it, the AI proudly said, "This is a dog!"-while showing a photo of a fluffy white kitten.
Oops.

This might sound funny, but in real life, labeling mistakes can cause serious problems.
A self-driving car might mix up a stop sign with a billboard if its training data was wrong.
A language app might think the word "mean" always describes someone being rude-even when it's used in math problems!

That's why people who label data have to be careful, consistent, and thoughtful.
They're like teachers making sure their students understand the right answers.
When the labels are clear and correct, the AI becomes smarter and more trustworthy.
But when labels go wrong, even the cleverest machine can act a little... *clueless.*

1. What is the main idea of the passage?
A. AI systems can read people's minds.
B. AI systems learn from humans, and labeling mistakes can confuse them.
C. AI never makes mistakes once trained.
D. Robots don't need any human help.

2. What happens when people label data incorrectly?
A. The AI ignores the mistakes.   B. The data disappears.
C. The AI automatically fixes the errors.
D. The AI learns the wrong information.

3. In the story, what mistake did the engineers make?
A. They forgot to charge their computers.
B. They trained the AI without any pictures.
C. Some cat pictures were labeled as "dogs."
D. They used the wrong kind of AI model.