

Name _____

The Secret Art of Smart Labeling

Before an AI can *do* anything cool-like spot your dog in a photo or guess your mood in a text-it has to be taught what things mean. That job belongs to **data labelers**, the humans who tag pictures, words, and sounds so AI can learn patterns.



In each scenario below, you'll see a new AI project idea. Choose the best **labeling strategy** from the options and then **explain why** it makes the most sense. Remember: good labeling depends on the *purpose* of the project!

Scenario 1: The Mood Message App - You're helping build an AI that detects emotions in text messages.

Which labeling approach would help most?

- A. Label every message as "funny" or "boring."
- B. Label messages as "happy," "sad," or "angry" based on tone and words.
- C. Label only the emojis used in each message.

Your Explanation: Why is your choice the best for helping the AI learn emotions?

Scenario 2: The Snack Scanner - Your AI camera identifies foods in a school cafeteria.

Which data labeling plan works best?

- A. Label everything as "food."
- B. Label each photo as "fruit," "sandwich," "chip," or "dessert."
- C. Label foods by color-"brown," "green," or "yellow."

Your Explanation: How does your choice help the AI recognize different foods correctly?

Scenario 3: The Road Hero Car AI - You're training an AI to read street signs for self-driving cars.

Which labeling strategy is most effective?

- A. Label every picture as "road."
- B. Label each item clearly-"stop sign," "traffic light," "pedestrian," "car."
- C. Label signs only if they look perfect and clean.

Your Explanation: Why does your labeling choice make the AI safer and smarter?