Name _____

Too Much Salt in Data Soup! Answer Key

Dataset 1: The Tweet Translator

1. What kind of bias might this create?
The AI might only understand English slang, culture, and viewpoints from North America.

2. Whose voices or perspectives are missing?
People who speak other languages, live in other countries, or use different social media platforms.

3. How could you "rebalance the recipe"?
Add tweets from multiple languages, countries, and cultures so the AI learns how people communicate differently around the world.

Teacher Note: A narrow dataset means a narrow worldview - AI language tools need diverse examples to avoid bias toward one culture or region.

Dataset 2: The Fashion Finder

1. What kind of bias might show up here?
The AI might only recognize fashion that matches Western, high-end, or commercial styles.

2. Which styles, body types, or cultures might be left out?
Everyday clothing, traditional or cultural dress, and diverse body shapes and sizes.

3. How could the AI's data mix be improved?
Include photos from people around the world, street fashion, cultural festivals, and independent designers.

Teacher Note: Bias in visual data can make AI label some clothing as "normal" and others as "unusual." Representation matters.

Dataset 3: The Smart Hiring Helper

1. What hidden bias could this create?
If past "successful" employees mostly share one background, the AI will learn to prefer people who look or sound the same.

2. How might this affect who gets recommended for jobs?
Qualified applicants from different schools, cities, genders, or ethnic backgrounds could be unfairly rejected.

3. What could the company add or change to make it fairer?
Use résumés from a wider variety of people and remove data that reveals personal details unrelated to job skills (like gender or address).

Teacher Note: This is a classic example of **historical bias** - the AI repeats old human patterns unless its data is redesigned to be inclusive.

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