Name: Date:

MORGAN CENTER FOR EQUITABLE AI & MACHINE LEARNING SYSTEMS

Probability and Bias in AI Predictions

Instructions:
Using your knowledge of probalitiy and bias, respond to the questions below.

1. Weather Probability:
An AI predicts the weather based on past data. Here are the probabilities for different weather conditions:

Weather	Sunny	Rainy	Cloudy	Snowy
Probability	0.4	0.3	0.2	0.1

If the AI was trained only with data from sunny days, how might its predictions be biased?

2. Balanced Data Collection:
Imagine you are collecting data for an AI to recognize different types of fruits. List three ways to ensure your data is not biased.

3. Probability Adjustment:
If the probability of getting a ripe banana is 0.6 and an unripe banana is 0.4, how can you adjust your data collection to make it fair?