- Suppose the model correctly predicts B1 and B2 but fails on B3.
- If a source sample (A1, A2) contributed to errors on target samples, its weight is reduced.

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• Misclassified target samples get higher weights.

Sample ID	True Label	Predicted Label	Error?	Updated Weight
A1	5.2	5.4	× No	▼ Decreases
A2	8.7	6.9	▼ Yes	▲ Increases
B1	6.5	6.4	💢 No	▼ Decreases
B2	7.3	7.2	× No	▼ Decreases
В3	8.1	6.5	√ Yes	▲ Increases

## Step 3: Retrain Model with Updated Weights

- The next iteration downweights bad source samples (A1) and focuses on misclassified target data (B3).
- If source data isn't helping, it gets even lower weight in future rounds.



## Step 2: Train the Model



Sample ID	TrAdaBoost (Adaptive)	Balance Weighting (Fixed)
A1 (Bad Source)	▼ Weight decreases (ignored)	▼ Fixed low weight
A2 (Helpful Source)	Weight increases	▼ Fixed low weight
B1 (Correctly Predicted Target)	▼ Weight decreases	Fixed high weight
B2 (Correctly Predicted Target)	▼ Weight decreases	Fixed high weight
B3 (Misclassified Target)	Weight increases (focus)	Fixed high weight