Confidence Calibration

🎯 What is Calibration?

If model says 80% confidence, it should be correct 80% of the time

Temperature Scaling
Adjust logits with temperature T
p' = softmax(logits / T)

Platt Scaling
Logistic regression on outputs
p' = 1 / (1 + exp(A·p + B))

Isotonic Regression
Non-parametric calibration
Monotonic function fitting

📊 Calibration Metrics

ECE (Expected Calibration Error): |confidence - accuracy|

MCE (Maximum Calibration Error): max|confidence - accuracy|

Brier Score: Mean squared error of probabilities