

Teacher Forcing: Problems and Solutions

⚠ Key Problems

✗ Exposure Bias

Model never sees its own mistakes during training, struggles at inference

✗ Train-Test Mismatch

Training uses ground truth, but inference uses predictions

✗ Error Recovery

Model doesn't learn to recover from its own errors

✗ Overconfidence

Model becomes overconfident on ground-truth inputs

✓ Solutions & Techniques

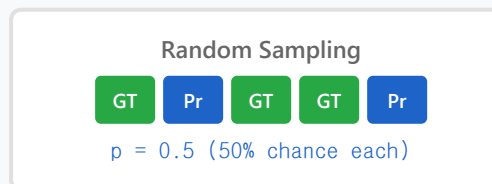
1 Scheduled Sampling

Gradually mix ground-truth and model predictions during training



2 Mixed Training

Randomly alternate between teacher forcing and autoregressive modes



3 Curriculum Learning

Start with easier tasks and progressively increase difficulty

