

Quantum Autoencoder (QAE) Training Report

1. Overview

This report summarizes the QAE model training process, key metric trends, and final performance.

2. Training and Validation

- Training set size: 56000
- Validation set size: 12000
- Test set size: 12000
- Samples used per epoch: 1000
- Total epochs: 240

3. Key Metrics

Metric	Min	Max	Final	Best Epoch
Avg Train Loss	0.1929	0.9789	0.1929	-
Val Fidelity	0.0464	0.8071	0.8071	238

4. Loss and Fidelity Curves

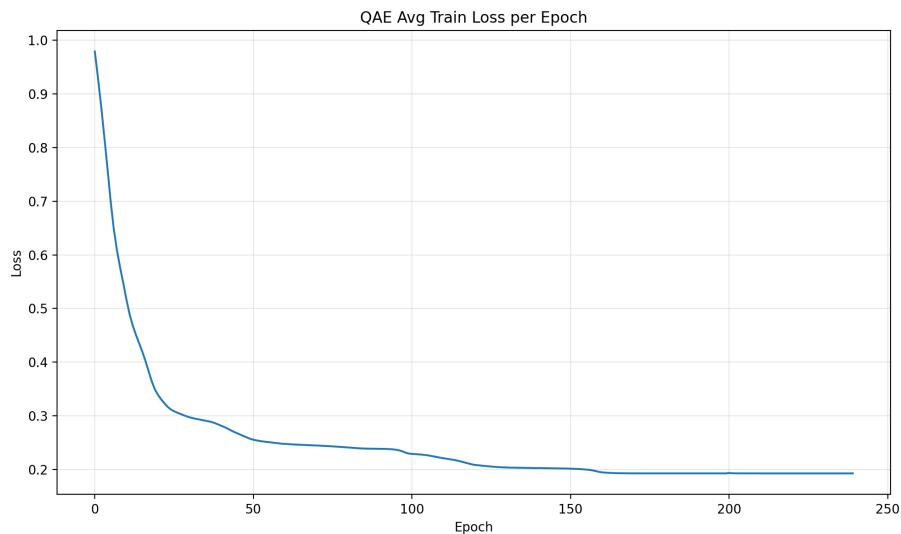


Figure 1: Train Loss

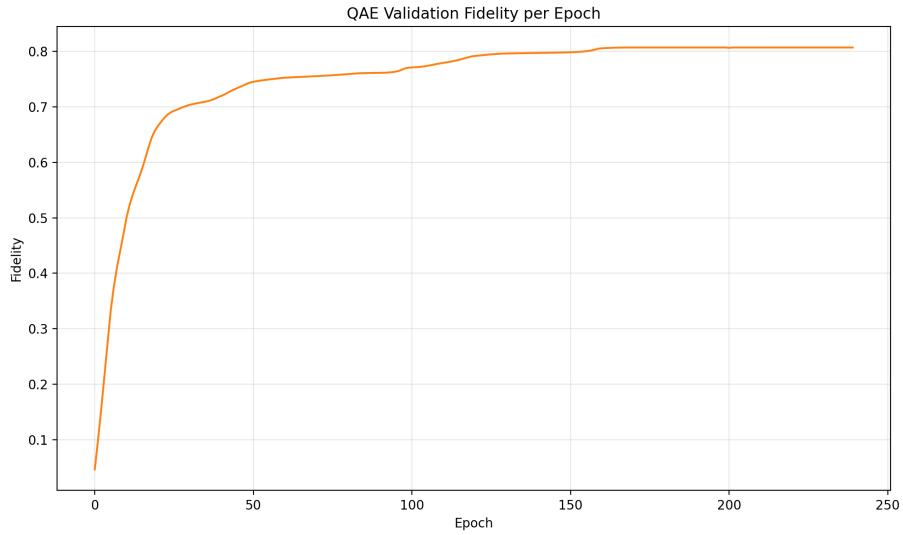


Figure 2: Validation Fidelity

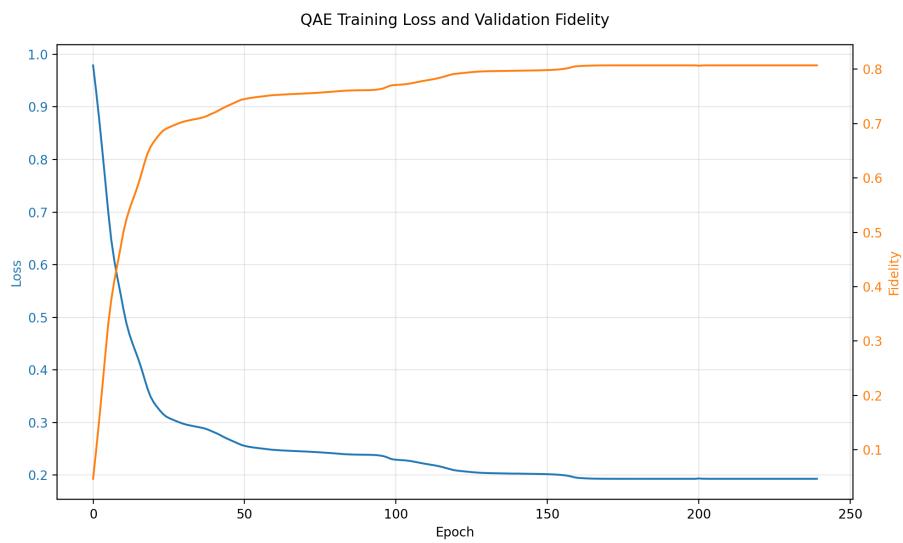


Figure 3: Loss & Fidelity

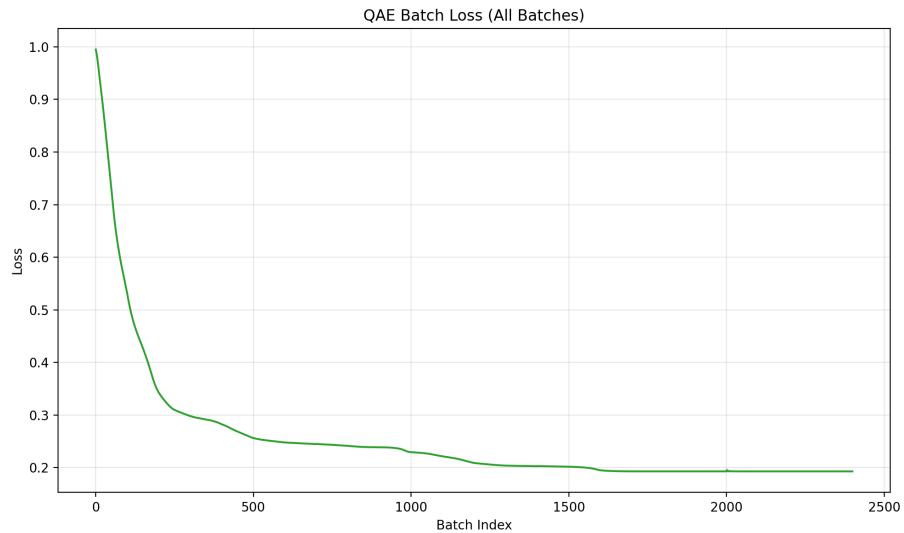


Figure 4: Batch Loss

5. Batch Loss Curve

6. Detailed Data

- Epoch metrics: qae_epoch_metrics.csv
- Batch losses: qae_batch_losses.csv
- Summary: qae_summary.csv

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