β-VAE Latent Space Analysis Report

☐ MODEL CONFIGURATION

558 Input dimension:

Latent dimension: 2

Validation samples: 7,500

0.00033995634294115007 β parameter:

Covariance reg: 0.000699999975040555

□ KL DIVERGENCE METRICS

Mean KL (unweighted): 6.4888

KL std deviation: 1.0388

KL min/max: [3.4319, 15.8592]

□ RECONSTRUCTION METRICS

MSE: 0.100575

MAF: 0.217236

Combined (0.8*MSE+0.2*MAE): 0.123907

□ LATENT SPACE STATISTICS

z mean statistics:

• Mean: [-0.112 0.001]

• Var: [1.098 1.006]

Avg |correlation| off-diagonal: 0.0246

□ EMBEDDING QUALITY

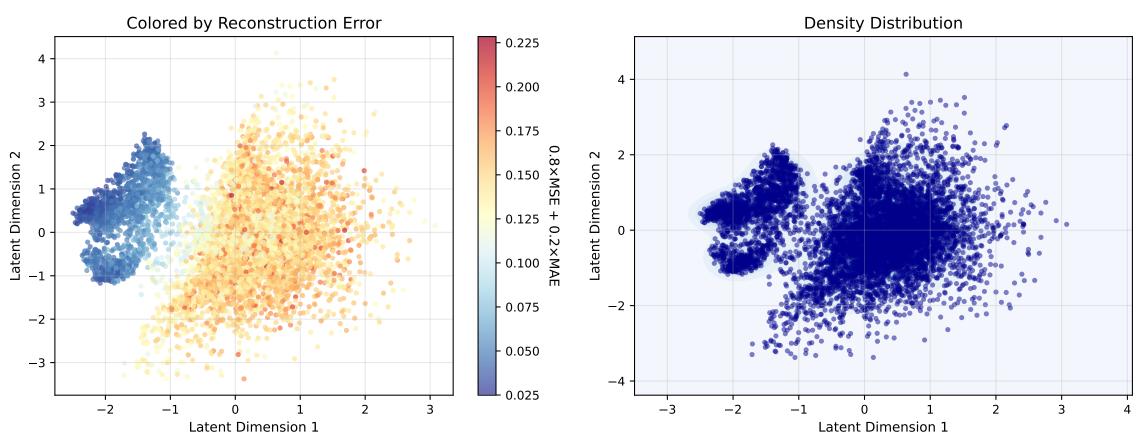
Trustworthiness scores:

• k= 5: 0.8015 □

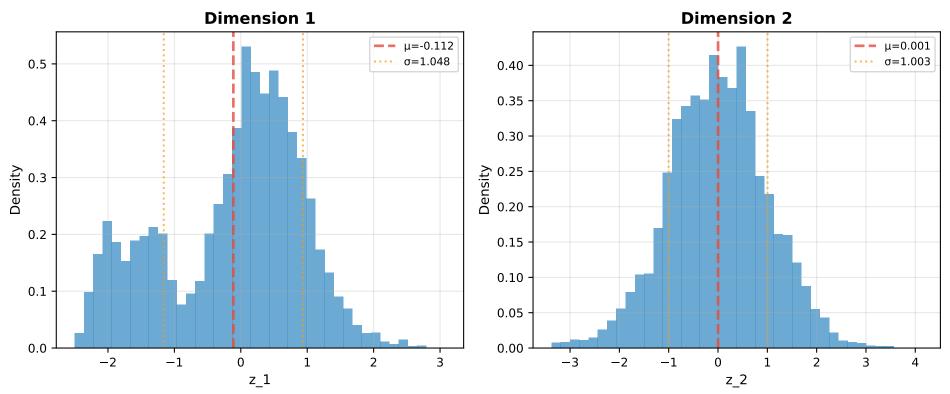
• k=10: 0.8013 □

• k=20: 0.8007 □

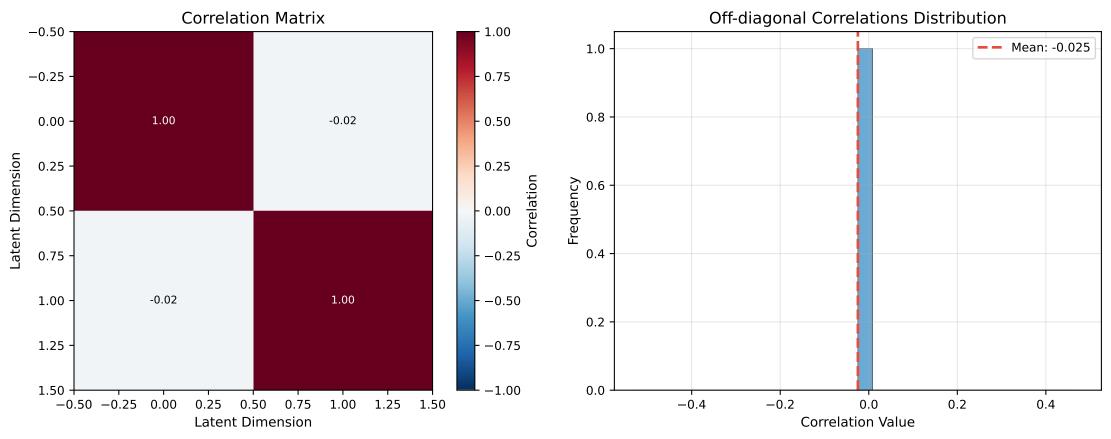
Latent Space Visualization



Latent Dimensions Analysis



Latent Space Correlation Analysis



Performance Metrics Dashboard

