Distribution of Generated Features

Dataset: 1,000,000 Samples, 5 Features (0 Cont, 5 Disc)

Perturbation: feature_0 (Noise) by +0.2σ; feature_1 (Noise) by -0.5σ; feature_2 (Noise) scaled by 1.5x; feature_3 (Noise) scaled by -1.25x; feature_4 (Noise) scaled by 1.5x | Std. Separation: 1.84

Distribution of feature_0

Signal: mean=3.01, std=2.02
Noise: mean=2.70, std=2.81
Separation: 0.31

Distribution of feature_1

Signal: mean=1.00, std=3.51
Noise: mean=1.25, std=2.51
Separation: 0.25

Distribution of feature_2

Signal: mean=3.50, std=1.52
Noise: mean=3.01, std=4.52
Separation: 0.49

Distribution of feature_3

Signal: mean=-2.00, std=2.52
Noise: mean=-3.75, std=2.53
Separation: 1.75

Distribution of feature_4

Signal: mean=2.50, std=1.04
Noise: mean=1.50, std=2.74
Separation: 1.00