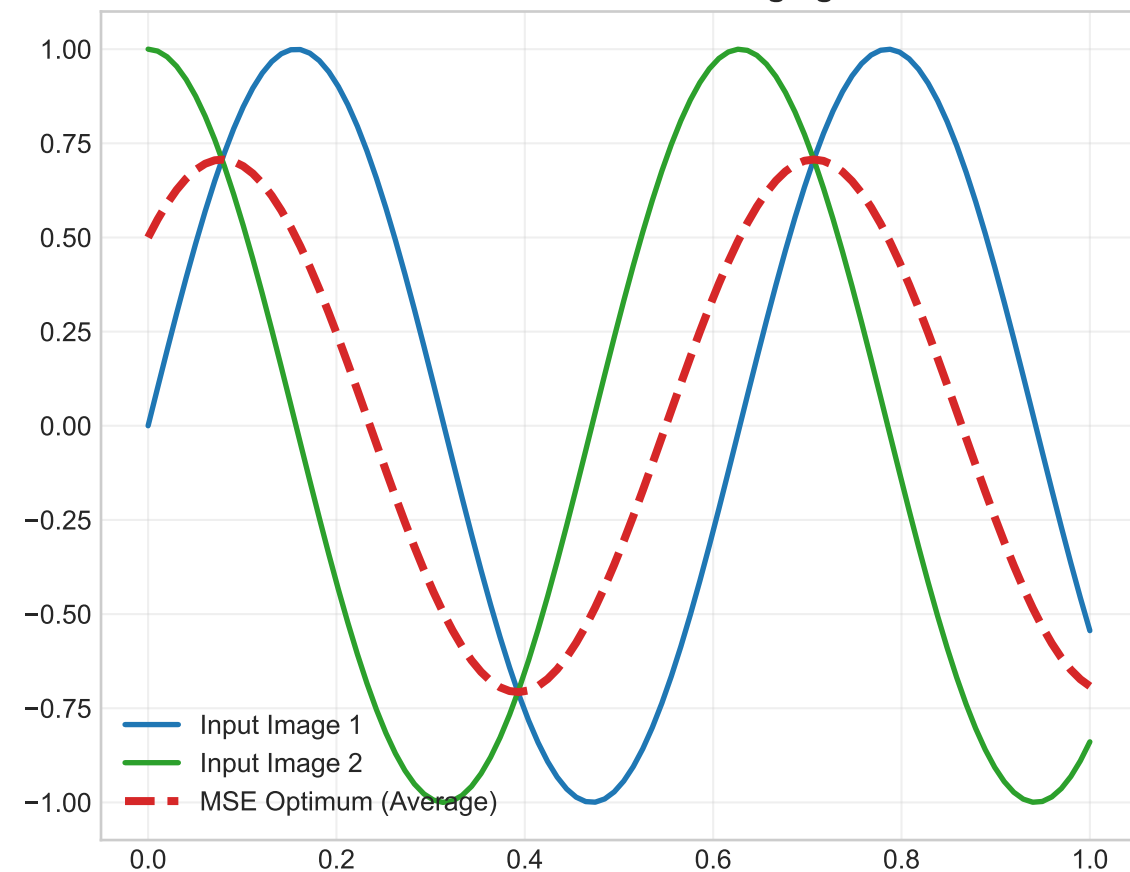


MSE Loss Forces Averaging

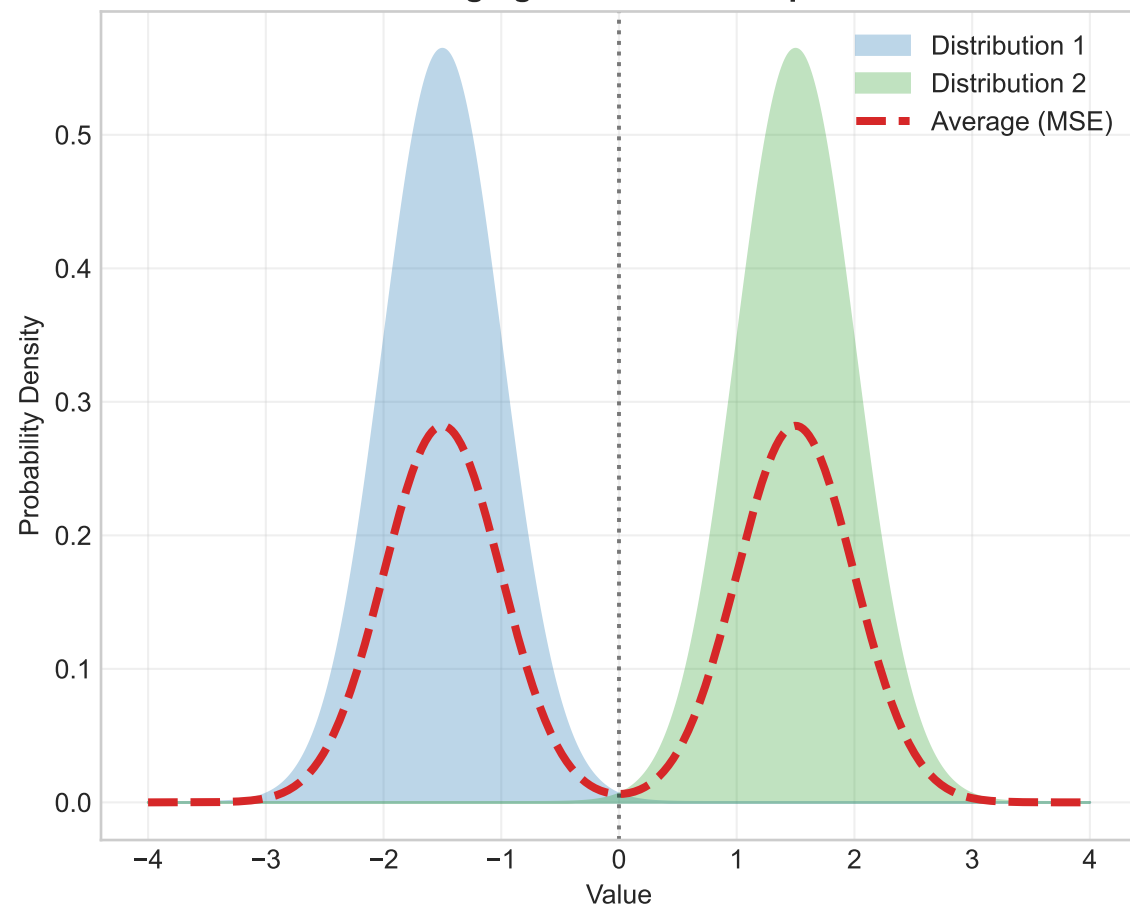


Given two inputs  $x_1$  and  $x_2$

**MSE optimal reconstruction:**  $\hat{x} = \frac{x_1 + x_2}{2}$

Result: Blurry average, not realistic sample

Averaging in Distribution Space



MSE Loss: Convex (Forces Average)

