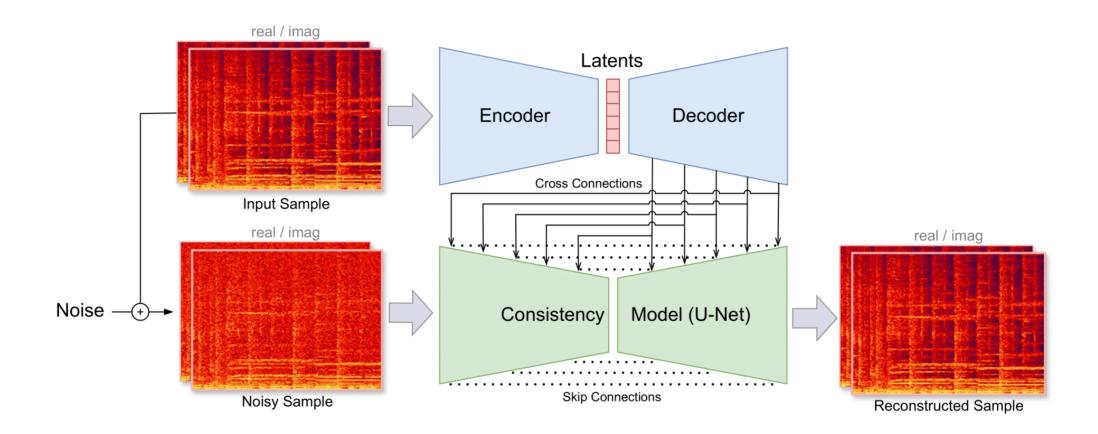
## Music2Latent: Consistency Autoencoders for Latent Audio Compression

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## **Finding**

Music2Latent is a consistency autoencoder that encodes samples into a continuous latent space with a high compression ratio. It is trained fully end-to-end using a single loss function. Its representations perform competitively on downstream tasks, and can be used to train generative models. It provides more accurate reconstructions than comparable models.

## Question

We improve on the original consistency models training recipe by introducing continuous noise levels with a novel exponential schedule. We also adopt frequency wise self-attention and an adaptive frequency scaling mechanism to deal with the unbalanced magnitude distribution over different frequency bins. We validate the effectiveness via ablation studies.