

Training Report

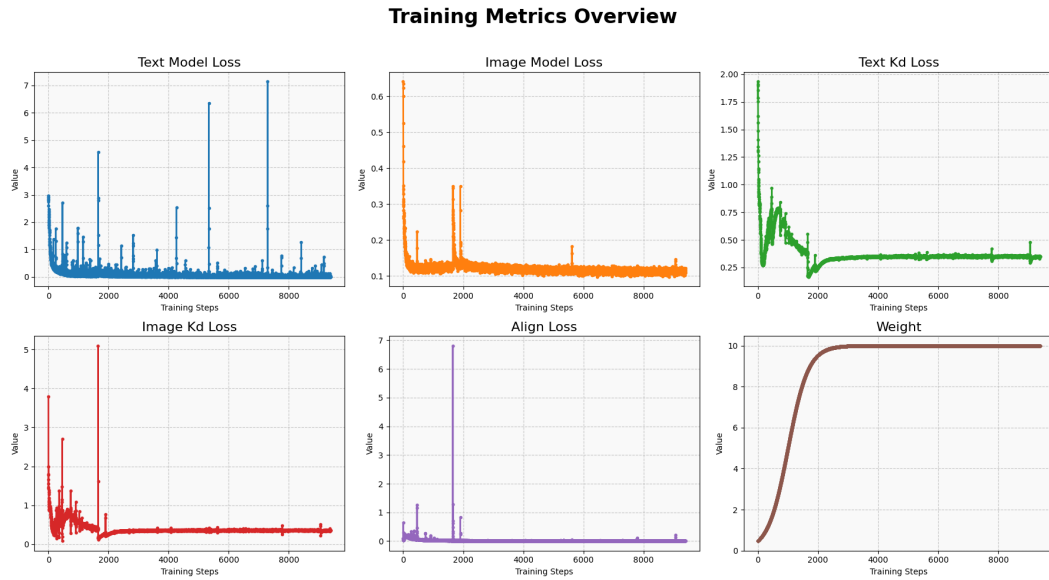
0. Experiment Information

Name	gru_example
Reader	MNISTMixedDataset
Text Architecture	GRUSeq2seqBidirectional
Image Architecture	FixedConvolutionalImageAutoencoder
Tokenizer Path	../models/example/tokenizer.pkl
Dataset Length	10000
Image Size	56
Input Channels	1
Latent Dim	1200
Embedding Dim	64
Hidden Dim	64
Context Length	10
Batch Size	32
Epochs	30
Trainer	MixedAdaptativeannealingTrainer
Training Method	modified
Weights.Text Model Loss	10
Weights.Image Model Loss	1000
Weights.Text Kd Loss	1
Weights.Image Kd Loss	1
Weights.Align Loss	100
K	0.0030
X0	1000
Results Dir	../experiments/gru_example
Checkpoint Dir	../models/gru_example
Checkpoint Steps	3000
Evaluators	MixedMNISTEvaluator

Training Report

1. Training

1.1 Training Metrics Chart



1.2 Training Time

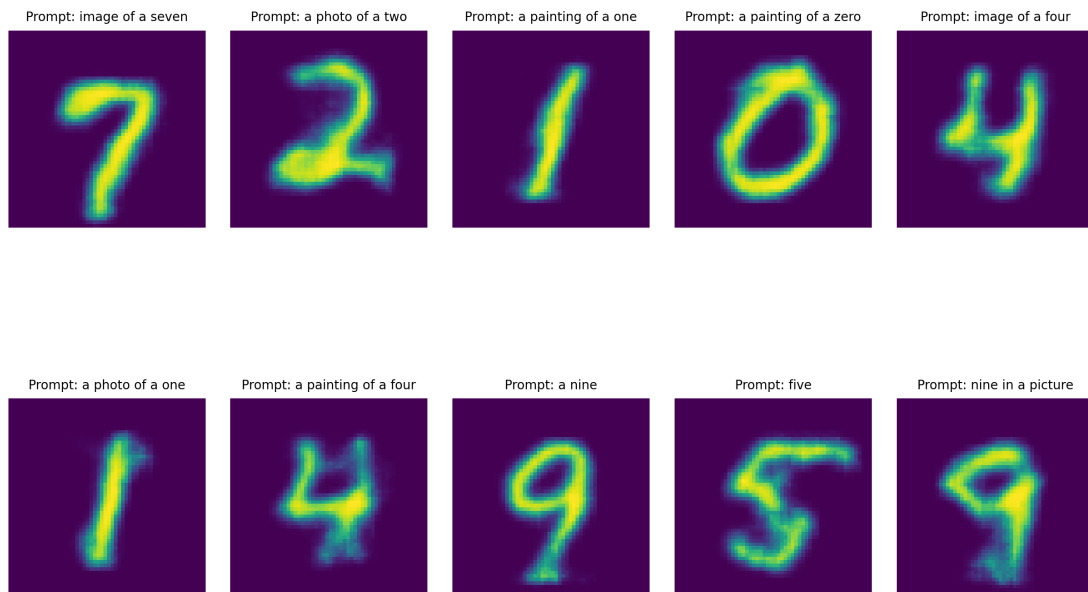
Total training time: 737.6795399188995 seconds

Formatted duration: 0:12:17 (hh:mm:ss)

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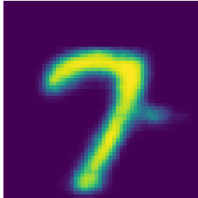
2. Generated Images

Images Generated from Text

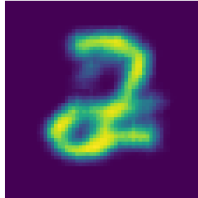


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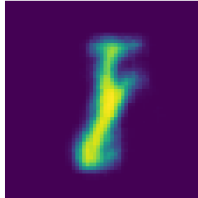
Prompt: seven



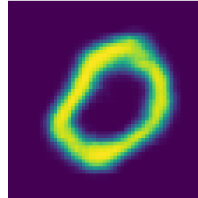
Prompt: a photo of a two



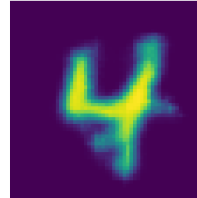
Prompt: image of a one



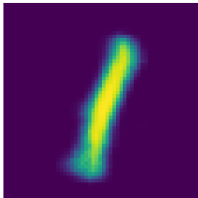
Prompt: a photo of a zero



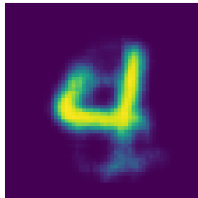
Prompt: image of a four



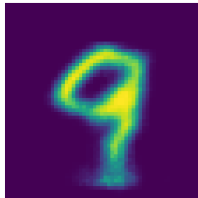
Prompt: a one



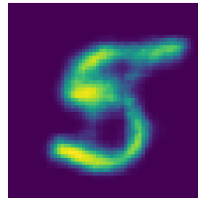
Prompt: a four



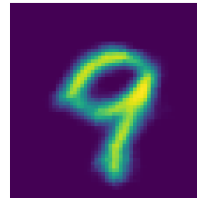
Prompt: nine



Prompt: five

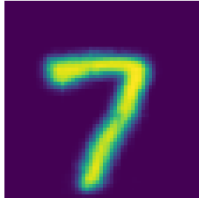


Prompt: image of a nine

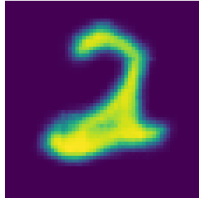


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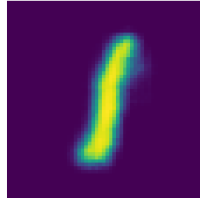
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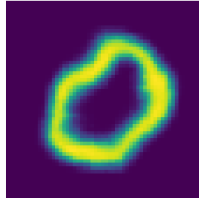
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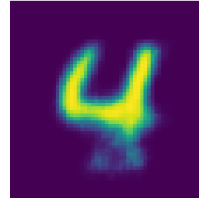
Prompt: a photo of a one



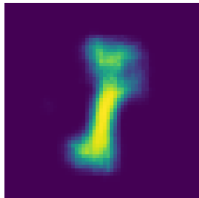
Prompt: image of a zero



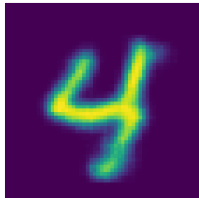
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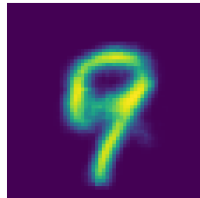
Prompt: image of a one



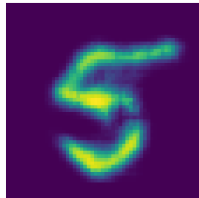
Prompt: four



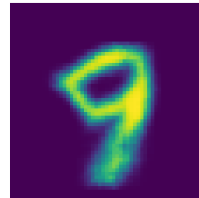
Prompt: a photo of a nine



Prompt: five

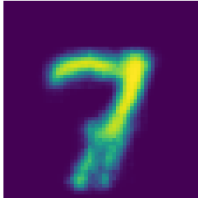


Prompt: nine in a picture

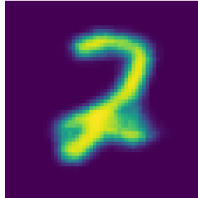


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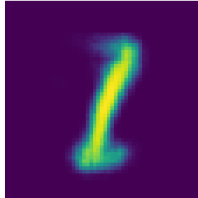
Prompt: seven



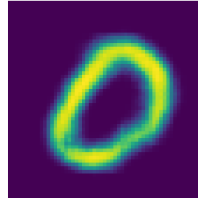
Prompt: two



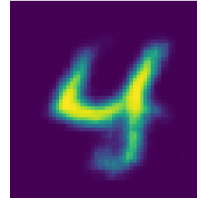
Prompt: one



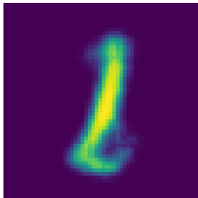
Prompt: a photo of a zero



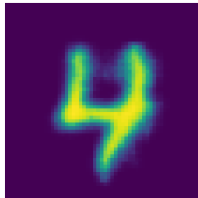
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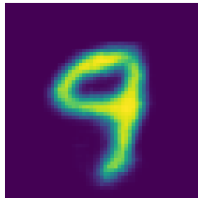
Prompt: one in a picture



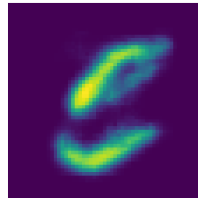
Prompt: a painting of a four



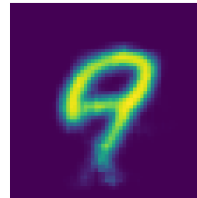
Prompt: nine in a picture



Prompt: a photo of a five

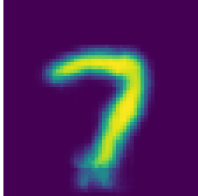


Prompt: a photo of a nine

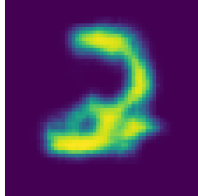


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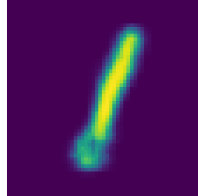
Prompt: seven in a picture



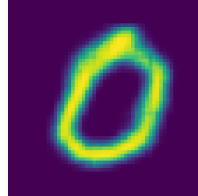
Prompt: image of a two



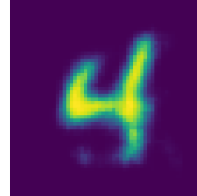
Prompt: a one



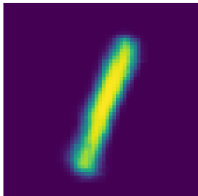
Prompt: a painting of a zero



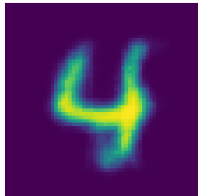
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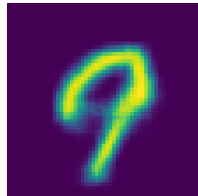
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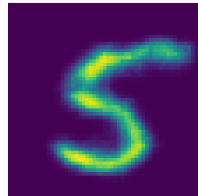
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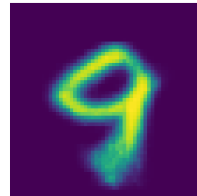
Prompt: a photo of a nine



Prompt: five in a picture



Prompt: nine in a picture

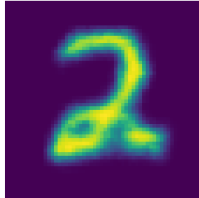


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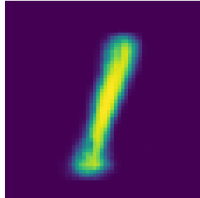
Prompt: a photo of a seven



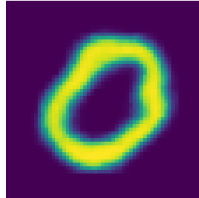
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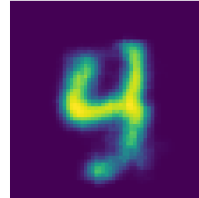
Prompt: a one



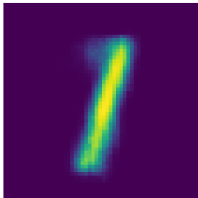
Prompt: image of a zero



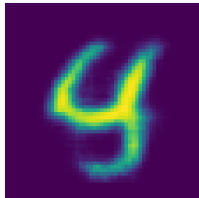
Prompt: a four



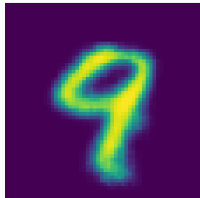
Prompt: a painting of a one



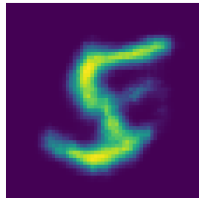
Prompt: four



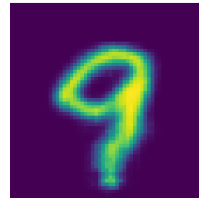
Prompt: image of a nine



Prompt: image of a five

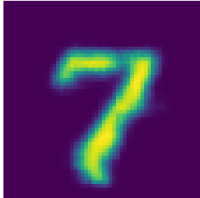


Prompt: nine

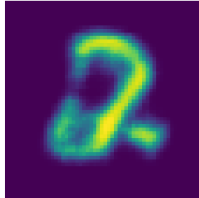


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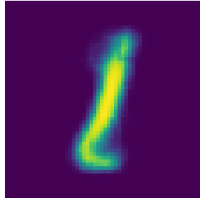
Prompt: image of a seven



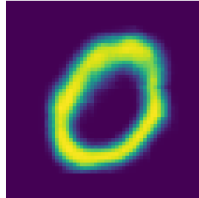
Prompt: a photo of a two



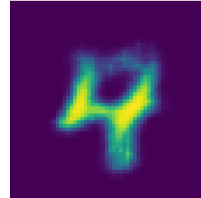
Prompt: one in a picture



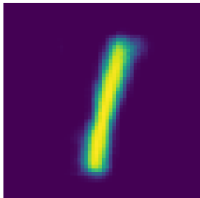
Prompt: zero



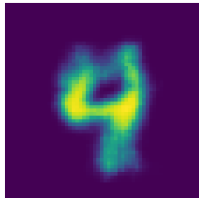
Prompt: a painting of a four



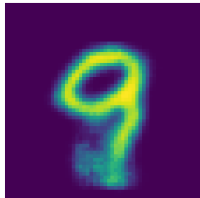
Prompt: a photo of a one



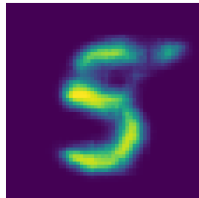
Prompt: a painting of a four



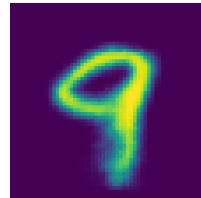
Prompt: nine



Prompt: five

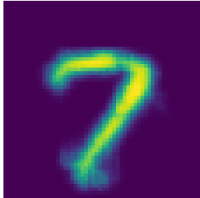


Prompt: nine

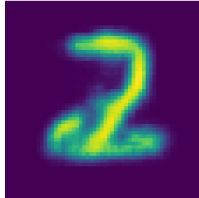


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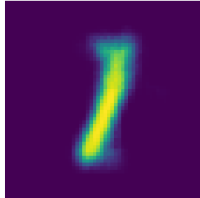
Prompt: image of a seven



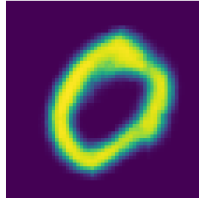
Prompt: a photo of a two



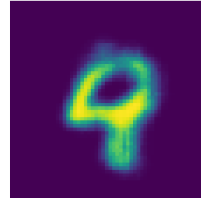
Prompt: image of a one



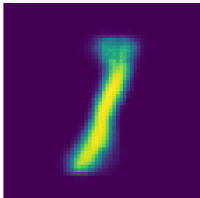
Prompt: a zero



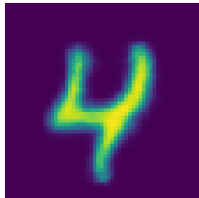
Prompt: a painting of a four



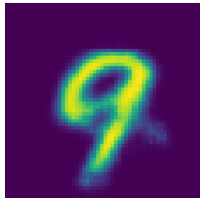
Prompt: one



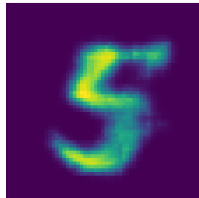
Prompt: a photo of a four



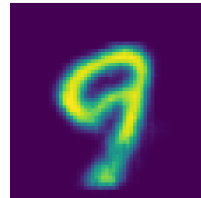
Prompt: a photo of a nine



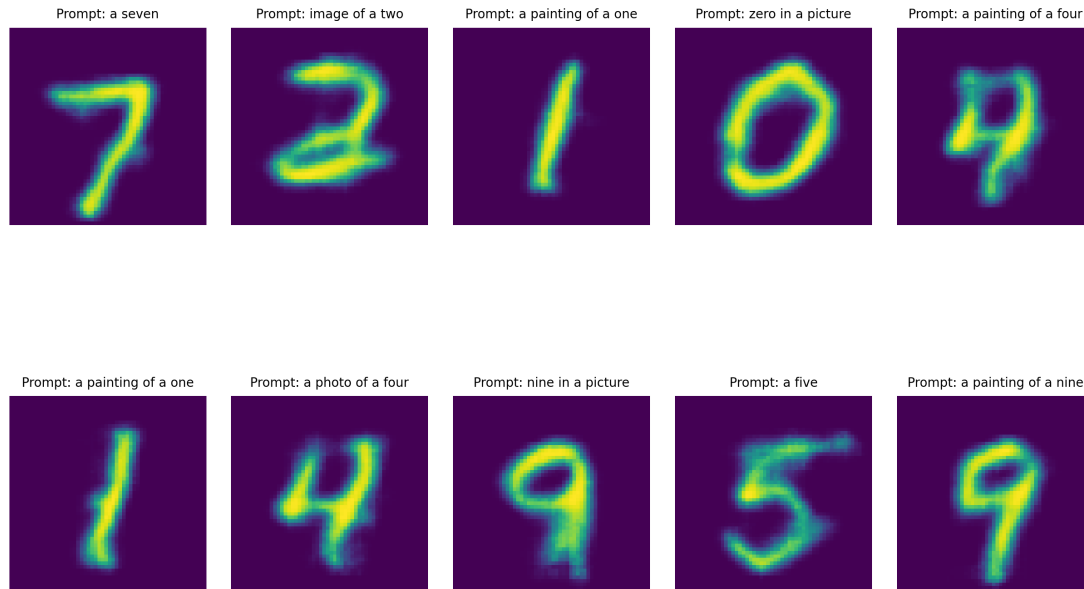
Prompt: image of a five



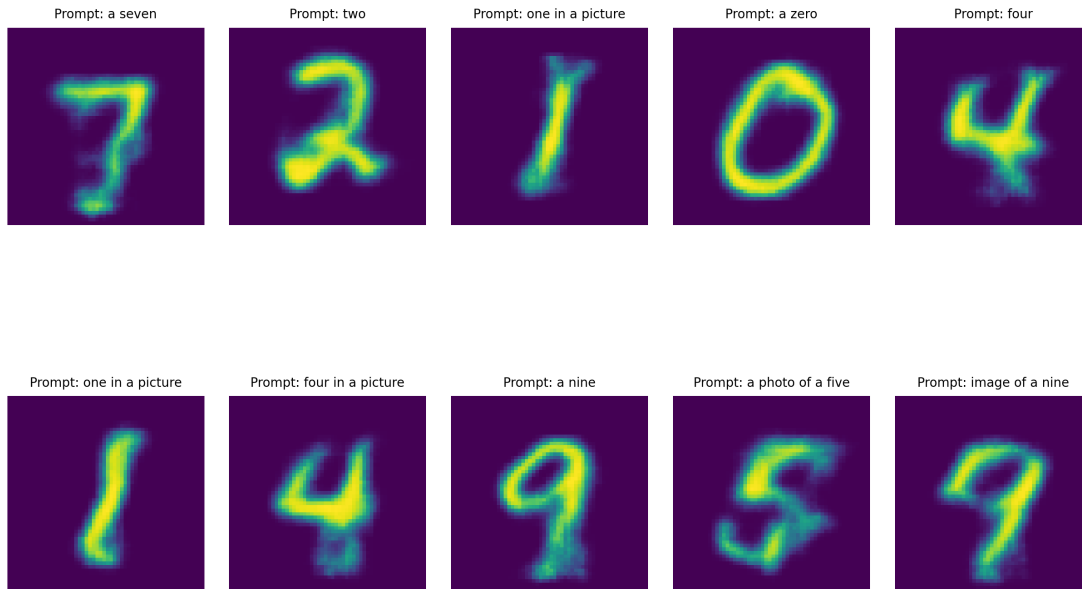
Prompt: a nine



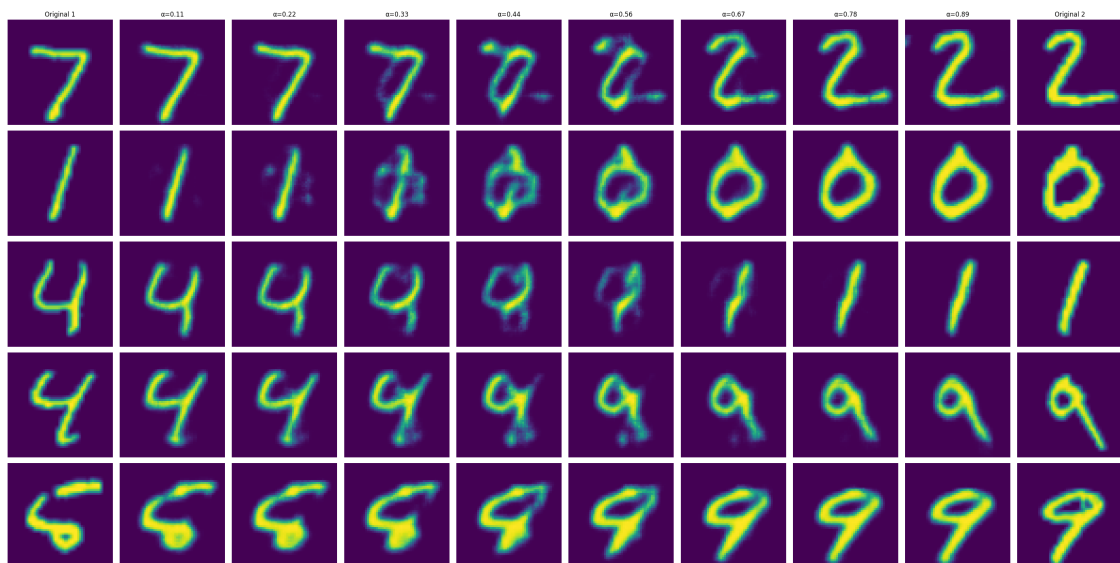
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Interpolation



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3. Evaluation Results

Results: eval_mnist_accuracy

Image	To	Text	Accuracy	0.7720
Image	To	Text	Accuracy	0.8240
Image	To	Text	Accuracy	0.8567
Text	To	Image	Accuracy	0.2480
Text	To	Image	Accuracy	0.3893
Text	To	Image	Accuracy	0.5051

Top3