Collection Date	Padded Sequence	Binary Format
2000-02-14	MEANAT...NNSTDAA	[0 1 0 0 ... 0 0 1 0]
2001-12-25	MEANAT...NNSTDAA	[0 1 0 0 ... 0 0 1 0]
2005-01-01	MEANAT...NNSTDA*	[0 1 0 0 ... 0 0 0 1]
2008-09-01	MEANAT...NSTDAA*	[0 1 0 0 ... 0 0 0 1]
2011-07-04	MEANAT...NNSTDAA	[0 1 0 0 ... 0 0 1 0]
2016-07-01	MEAQAT...STDAA**	[0 1 0 0 ... 0 0 0 1]
2017-01-01	MEAQAT...NNSTDAA	[0 1 0 0 ... 0 0 1 0]

Variational Autoencoder

encode

Projection

Dim 2

Dim 1

decode

Gaussian Process

Dim 2

Dim 1

t

Likelihood

	Predicted Sequences	
0.459	MEAQAT...NNSTDAA	[0 1 0 0 ... 0 0 1 0]
0.331	MEAQAT...NNSTDAA	[0 1 0 0 ... 0 0 1 0]
0.120	MEAQAR...NSTDAA*	[0 1 0 0 ... 0 0 0 1]
0.031	MEAQAT...STDAA**	[0 1 0 0 ... 0 0 0 1]
0.029	MEAQAT...NNSTDAA	[0 1 0 0 ... 0 0 1 0]

Predicted Sequences