BidirAutoregEncoder (Masked Reconstruction)

Legend

[B,L,C]	Tensor shapes
Op	Operations
Act	Activations
→	Data flow
--→	Output conn.

[B, L, 3]

Conv1d(3→H, k=3, s=2)

ReLU

[B, L/2, H]

Conv1d(H→H, k=3, s=2)

ReLU

[B, L/4, H] ← *saved as tokens*

Linear(H→H)

Dropout

Mask 75%
(span=10, set to zero)

masked_features

tokens (original)

return (features, tokens)

→ mLSTM Sequential Encoder

Encoder

Model