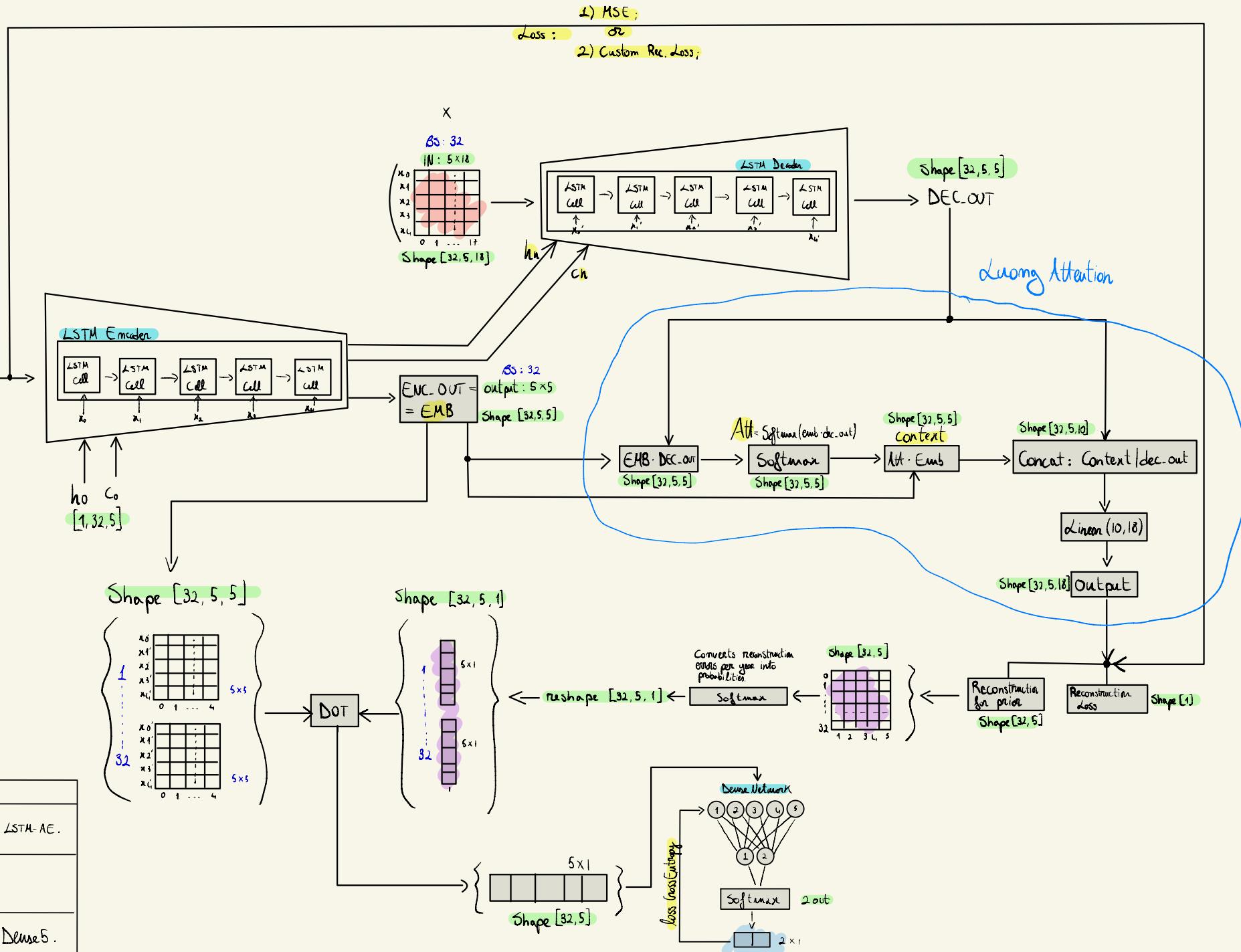


Machine learning Project Architecture: CONFIG - 3 ~ (original architecture)

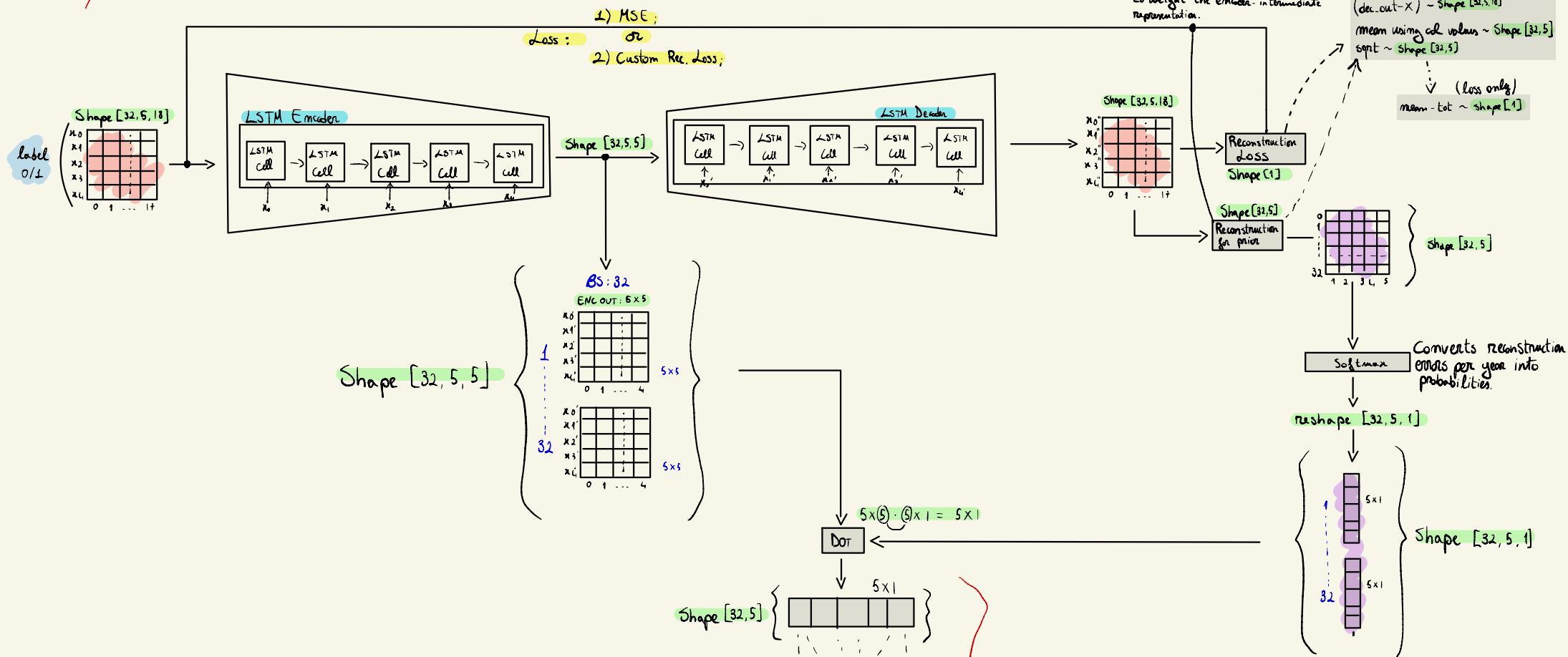
Batch Size = 32



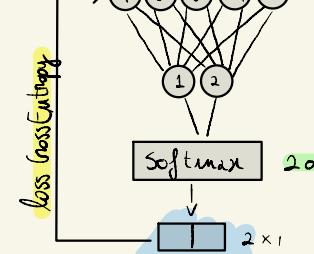
Machine learning Project Architecture: CONFIG 1

Batch Size = 32

Reconstruction Task



Legend	
	output & ground-truth for LSTM-AE.
	Softmax IN / OUT.
	output & ground-truth for Dense5.



for each of the 5 news that compose an example, you calculate the average using the 18 variables representing the columns. These 5 average values make up a single row of the purple matrix. The average value represents the reconstruction error committed for each year, and it is converted into probabilities through Softmax to weight the encoder intermediate representation.

$(dec_out - x)^2$ - Shape [32, 5, 18]
mean using col values ~ Shape [32, 5]
sqrt ~ Shape [32, 5]
↓ (loss only)
mean - tot ~ shape [1]

Shape [32, 5, 18]
Shape [32, 5, 1]
Shape [32, 5]

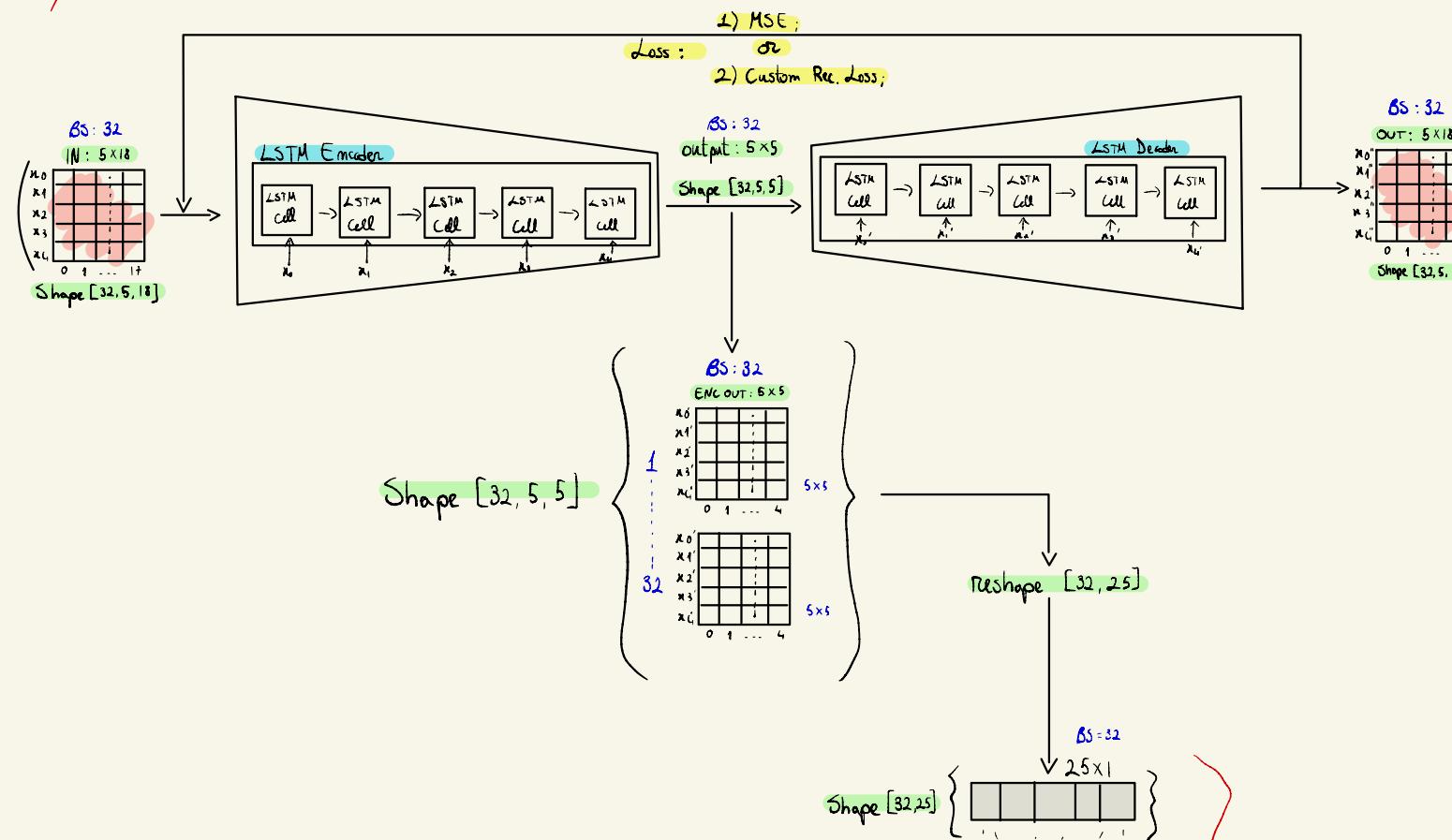
Converts reconstruction errors per year into probabilities.

reshape [32, 5, 1]
Shape [32, 5, 1]
Shape [32, 5, 1]

Machine learning Project Architecture: CONFIG 2

Batch Size = 32

Reconstruction Task



Legend

Output & ground-truth for LSTM-AE.

Output & ground-truth for Dense5.

