$$LossMAE = \frac{1}{N} \sum_{i=1}^{N} |x^{(i)} - y^{(i)}|.$$

$$LossMAPE = \frac{1}{N} \sum_{i=1}^{N} \frac{|x^{(i)} - y^{(i)}|}{x^{(i)}}.$$

 $\begin{array}{c} x^{(i)} \\ \bar{x}^{(i)} \end{array}$

$$LossMAAE = \frac{1}{N} \sum_{i=1}^{N} \frac{|x^{(i)} - y^{(i)}|}{\bar{x}^{(i)}}.$$

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$egin{array}{c} 2 \\ 4 \\ 8 \\ 16 \\ 32 \\ 64 \\ 128 \\ 256 \\ \end{array}$