

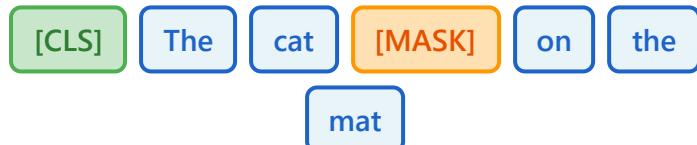
BERT Pre-training: Two Main Tasks

1

Masked Language Model

MLM - 15% masking

Input:



Predict: "sat"

Uses **bidirectional context**
to predict masked tokens

2

Next Sentence Prediction

NSP - Binary classification

Input:

A: The man went to the store.

B: He bought a gallon of milk.



IsNext ✓

[CLS] token for
sentence-level representation



Tokenization

WordPiece

30K vocabulary



Special Tokens

[CLS]

[SEP]

[MASK]

[PAD]



Training

4 days

on 4-16 Cloud TPUs