

## BERT Fine-tuning for Different Tasks

🧠 Pre-trained BERT (All Parameters)

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### Sequence Classification

Uses:



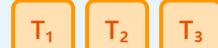
token representation

Sentiment Analysis,  
Text Classification



### Token Classification

Uses:



each token's output

NER, POS Tagging



### Question Answering

Predicts:

Start & End spans

SQuAD, Reading  
Comprehension

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⚡ End-to-End Fine-tuning

All parameters updated with task-specific data

Fast Training

Task-Specific

Transfer Learning



Only **few epochs** needed



Add layer on **top of BERT**



Few-shot & zero-shot