Neural Network Fine-tuning

Motivation

In which of these documents is someone about to get eaten?

1. Sir Belvidere peered down the dragon's throat...

2. Little Scarlett skipped merrily through the door into Granny's cottage...

3. The troll lurched forward and grabbed Hermy with a huge claw...

Can we train a NN to solve this problem?

Transfer learning

Solving a machine learning problem by leveraging inapt data.

Fine tuning

1) using new data to train it, don't change the format of it and you just go and train it a little bit more
2) Adding or removing sort of chunks of them

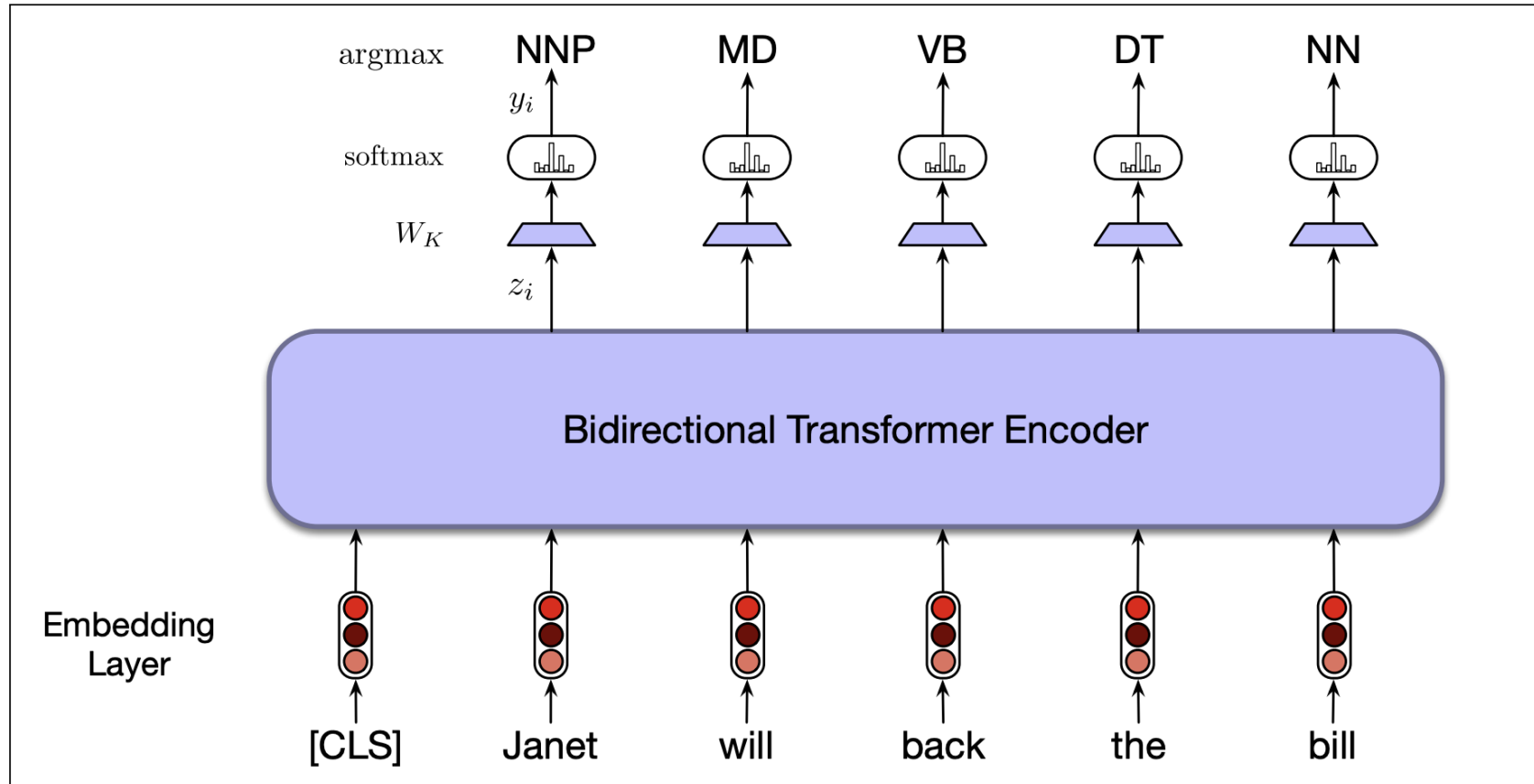*Tweaking* a "pre-trained" ML model for a specific (new) purpose.

Figure 11.9 Sequence labeling for part-of-speech tagging with a bidirectional transformer encoder. The output vector for each input token is passed to a simple k-way classifier.