

Blanks Filling:

Output: Can you buy J.K. Rowling's new book for me **from the bookstore in town?**

Fine-tuned T5 model

Context c

Locating Positions to Rewrite x_M : Can you buy [MASK] for me [MASK]?

Unsupervised Supervised approach

approach (Rule-based) (Sequence tagging)

Current utterance x:

Can you buy that novel for me?

masks for T5 training.

Gold utterances with

Training Data Generation:

Data in BIO format for sequence annotation model training.

LCS-based

Algorithm