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Blanks Filling:

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

Fine-tuned T5 model

Gold utterances with masks for T5 training.

Training Data Generation:

LCS-based Algorithm

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Locating Positions to Rewrite x_M :

*Can you buy **[MASK]** for me **[MASK]** ?*

Unsupervised
approach
(Rule-based)

Supervised approach
(Sequence annotation)

Data in BIO format for
sequence annotation
model training.

Current utterance x :

Can you buy that novel for me ?

Context c