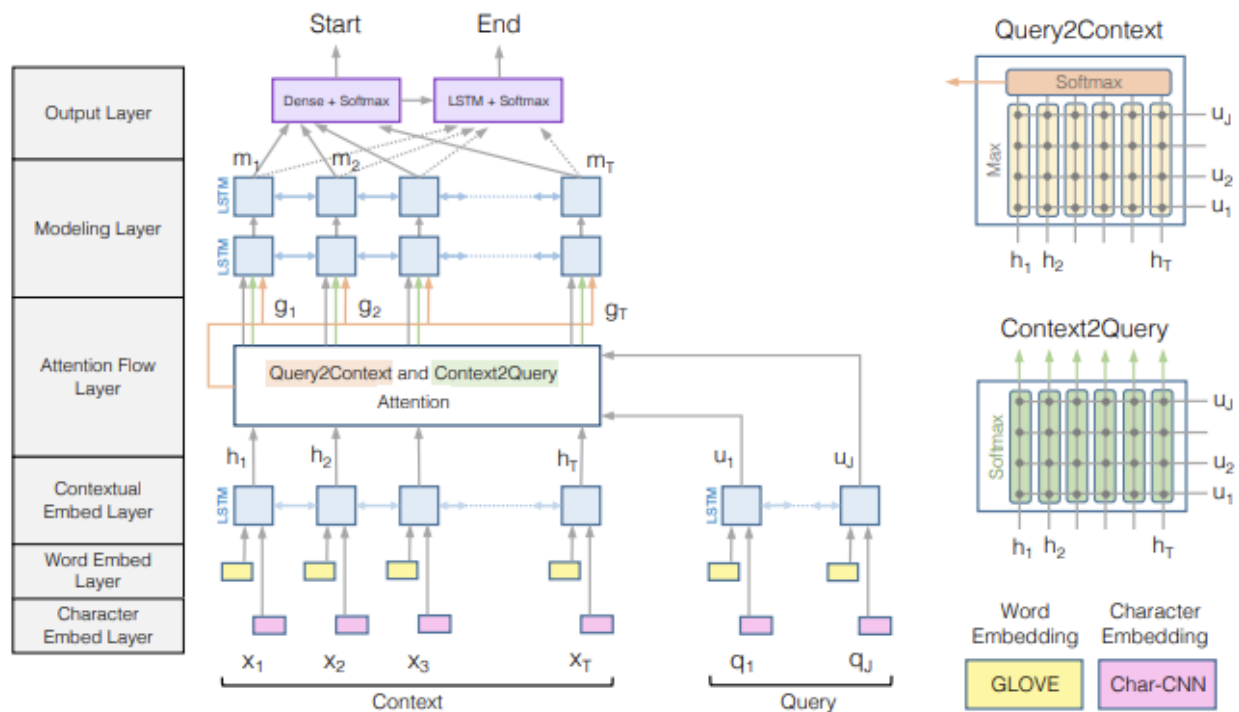


Bidirectional Attention Flow for Machine Comprehension

Architecture



- Character Embedding Layer
 - Maps each word to a vector space using character-level CNNs
- Word Embedding Layer
 - Maps each word to a vector space using a pre-trained word embedding model.
- Contextual Embedding Layer
 - Utilizes contextual cues from surrounding words to refine the embedding of the words. These first three layers are applied to both the query and context.
- Attention Flow Layer

- Couples the query and context vectors and produces a set of query-aware feature vectors for each word in the context.
- Modeling Layer
 - Employs a Recurrent Neural Network to scan the context
- Output Layer
 - Provides an answer to the query.

Conclusion

- The experimental evaluations show that the model achieves the state-of-the-art results in Stanford Question Answering Dataset (SQuAD) and CNN/DailyMail cloze test.
- The visualizations and discussions show that the model is learning a suitable representation for MC and is capable of answering complex questions by attending to correct locations in the given paragraph.