



ALICE: A Natural Language Question Answering System Using Dynamic Attention and Memory

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Abstract. With the growing amount of textual information in recent years, it has become quite challenging to keep up with content produced by humans. Many models have been proposed that can perform reading comprehension on a variety of texts; however, past models either excel at information retrieval on complex texts or inference on simple texts. In this paper, we propose a model called ALICE that can perform information retrieval as well as inference tasks on any text. It is scalable to any document size and can be used to aid professionals in quickly finding answers to their problems using natural language queries. We will explore how ALICE achieves this and test it on some common datasets.

Keywords: Language · Processing · Reading · Comprehension · Attention
Memory · Question · Answer

1 Introduction

In recent years, many models have been developed that can perform reading comprehension. Most recent models utilize deep learning techniques augmented with attention and memory mechanisms [1, 2] to decode answers from the encoded questions and documents [1, 3]. Many models either use information retrieval or inference techniques to find answers. However, current state-of-the-art models still face a decline in accuracy when processing larger and more complex text documents [3–6]. In this paper, we introduce a new approach towards text comprehension by utilizing predictive word embeddings, matched attention and external memory. Our proposed model can handle any document size due to its expandable architecture. Additionally, we predict the semantic relationship of out-of-vocabulary (OOV) and rare words, thereby, allowing us to generate significantly more accurate vector based word embeddings. End to end training is also possible with this model because the entire model is differentiable. The general architecture of this model can be expanded to applications beyond reading comprehension, such as, sentiment classification, image captioning and machine translation.

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