



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.

Dynamic Memory Network On Natural Language Question Answering

Wolfgang Guggemos



Dynamic Memory Network On Natural Language Question Answering:

The book delves into Dynamic Memory Network On Natural Language Question Answering. Dynamic Memory Network On Natural Language Question Answering is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Dynamic Memory Network On Natural Language Question Answering, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Dynamic Memory Network On Natural Language Question Answering
 - Chapter 2: Essential Elements of Dynamic Memory Network On Natural Language Question Answering
 - Chapter 3: Dynamic Memory Network On Natural Language Question Answering in Everyday Life
 - Chapter 4: Dynamic Memory Network On Natural Language Question Answering in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Dynamic Memory Network On Natural Language Question Answering. This chapter will explore what Dynamic Memory Network On Natural Language Question Answering is, why Dynamic Memory Network On Natural Language Question Answering is vital, and how to effectively learn about Dynamic Memory Network On Natural Language Question Answering.
3. In chapter 2, the author will delve into the foundational concepts of Dynamic Memory Network On Natural Language Question Answering. The second chapter will elucidate the essential principles that must be understood to grasp Dynamic Memory Network On Natural Language Question Answering in its entirety.
4. In chapter 3, this book will examine the practical applications of Dynamic Memory Network On Natural Language Question Answering in daily life. This chapter will showcase real-world examples of how Dynamic Memory Network On Natural Language Question Answering can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Dynamic Memory Network On Natural Language Question Answering in specific contexts. This chapter will explore how Dynamic Memory Network On Natural Language Question Answering is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Dynamic Memory Network On Natural Language Question Answering. The final chapter will summarize the key points that have been discussed throughout the book. The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Dynamic Memory Network On Natural Language Question Answering.

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