

Question: Where was Mary before the Bedroom?
Answer: Cinema.

Facts	Episode 1	Episode 2	Episode 3
Yesterday Julie traveled to the school.			
Yesterday Marie went to the cinema.			
This morning Julie travelled to the kitchen.			
Bill went back to the cinema yesterday.			
Mary went to the bedroom this morning.			
Julie went back to the bedroom this afternoon.			
[done reading]			

Table 5. An example of what the DMN focuses on during each episode on a real query in the hAbI task. Darker colors mean that the attention weight is higher.

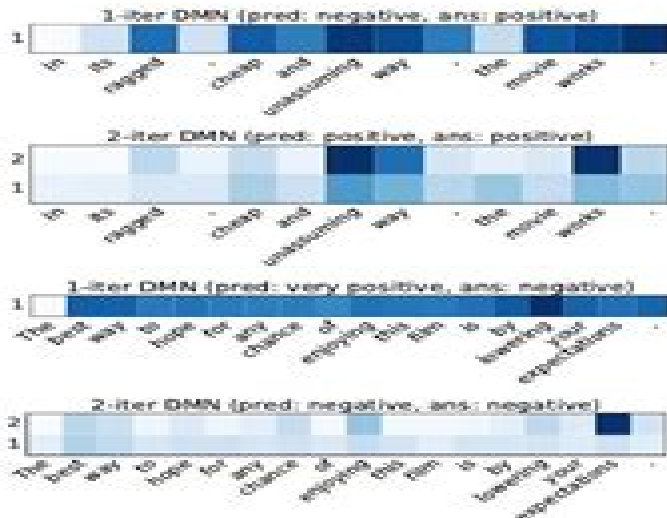


Figure 4. Attention weights for sentiment examples that were only labeled correctly by a DMN with two episodes. The y-axis shows the episode number. This sentence demonstrates a case where the ability to iterate allows the DMN to sharply focus on relevant words.

ule to perform multiple passes over the data is beneficial. It provides significant benefits on harder hAbI tasks, which require reasoning over several pieces of information or transitive reasoning. Increasing the number of passes also slightly improves the performance on sentiment analysis, though the difference is not as significant. We did not attempt more iterations for sentiment analysis as the model struggles with overfitting with three passes.

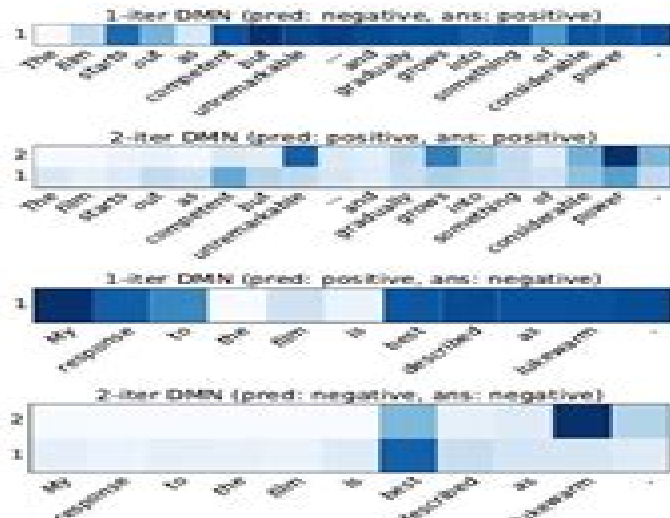


Figure 5. These sentence demonstrate cases where initially positive words lost their importance after the entire sentence context became clear either through a contrastive conjunction ("but") or a modified action "best described."

5. Conclusion

The DMN model is a potentially general architecture for a variety of NLP applications, including classification, question answering and sequence modelling. A single architecture is a first step towards a single joint model for multiple NLP problems. The DMN is trained end-to-end with one, albeit complex, objective function. Future work will explore additional tasks, larger multi-task models and multimodal inputs and questions.

Dynamic Memory Network On Natural Language Question Answering

J Rink



Dynamic Memory Network On Natural Language Question Answering:

Visual Question Answering Qi Wu, Peng Wang, Xin Wang, Xiaodong He, Wenwu Zhu, 2022-05-13 Visual Question Answering VQA usually combines visual inputs like image and video with a natural language question concerning the input and generates a natural language answer as the output This is by nature a multi disciplinary research problem involving computer vision CV natural language processing NLP knowledge representation and reasoning KR etc Further VQA is an ambitious undertaking as it must overcome the challenges of general image understanding and the question answering task as well as the difficulties entailed by using large scale databases with mixed quality inputs However with the advent of deep learning DL and driven by the existence of advanced techniques in both CV and NLP and the availability of relevant large scale datasets we have recently seen enormous strides in VQA with more systems and promising results emerging This book provides a comprehensive overview of VQA covering fundamental theories models datasets and promising future directions Given its scope it can be used as a textbook on computer vision and natural language processing especially for researchers and students in the area of visual question answering It also highlights the key models used in VQA

Representation Learning for Natural Language Processing Zhiyuan Liu, Yankai Lin, Maosong Sun, 2023-08-23 This book provides an overview of the recent advances in representation learning theory algorithms and applications for natural language processing NLP ranging from word embeddings to pre trained language models It is divided into four parts Part I presents the representation learning techniques for multiple language entries including words sentences and documents as well as pre training techniques Part II then introduces the related representation techniques to NLP including graphs cross modal entries and robustness Part III then introduces the representation techniques for the knowledge that are closely related to NLP including entity based world knowledge sememe based linguistic knowledge legal domain knowledge and biomedical domain knowledge Lastly Part IV discusses the remaining challenges and future research directions The theories and algorithms of representation learning presented can also benefit other related domains such as machine learning social network analysis semantic Web information retrieval data mining and computational biology This book is intended for advanced undergraduate and graduate students post doctoral fellows researchers lecturers and industrial engineers as well as anyone interested in representation learning and natural language processing As compared to the first edition the second edition 1 provides a more detailed introduction to representation learning in Chapter 1 2 adds four new chapters to introduce pre trained language models robust representation learning legal knowledge representation learning and biomedical knowledge representation learning 3 updates recent advances in representation learning in all chapters and 4 corrects some errors in the first edition The new contents will be approximately 50% compared to the first edition This is an open access book

Computer Vision Jinfeng Yang, Qinghua Hu, Ming-Ming Cheng, Liang Wang, Qingshan Liu, Xiang Bai, Deyu Meng, 2017-11-29 This three volume set CCIS 771 772 773 constitutes the refereed proceedings of the CCF Chinese

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and generate sentences The second deals with processing and computation and demonstrates why a language's grammar has important implications for the way in which it can be processed

Handbook of Pragmatics Jef Verschueren, Jan-Ola Östman, Jan Blommaert, 1995

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