

QUESTION ANSWERING FOR ONLINE QUIZ

HUMAN LANGUAGE TECHONLOGIES A.Y. 2018-2019

GABRIELE BARRECA

MARIO BONSEMBIANTE

GEMMA MARTINI

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1 Introduction

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2 The model

In this section the tools used in the project are described.

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References

- [1] Chris Alberti, Kenton Lee, and Michael Collins. A bert baseline for the natural questions. 01 2019.
- [2] Danqi Chen, Adam Fisch, Jason Weston, and Antoine Bordes. Reading wikipedia to answer open-domain questions. 03 2017.
- [3] Yu Chen, Lingfei Wu, and Mohammed J. Zaki. Bidirectional attentive memory networks for question answering over knowledge bases. pages 2913–2923, 01 2019.
- [4] Ronan Collobert, Jason Weston, Léon Bottou, Michael Karlen, Koray Kavukcuo-glu, and Pavel Kuksa. Natural language processing (almost) from scratch. *J. Mach. Learn. Res.*, 12:2493–2537, November 2011.

- [5] Wanyun Cui, Yanghua Xiao, Haixun Wang, Yangqiu Song, Seung-won Hwang, and Wei Wang. Kbqa: Learning question answering over qa corpora and knowledge bases. *Proceedings of the VLDB Endowment*, 10:565–576, 01 2017.
- [6] Mikael Henaff, Jason Weston, Arthur Szlam, Antoine Bordes, and Yann Lecun. Tracking the world state with recurrent entity networks. 12 2016.
- [7] Tom Kwiatkowski, Jennimaria Palomaki, Olivia Redfield, Michael Collins, Ankur Parikh, Chris Alberti, Danielle Epstein, Illia Polosukhin, Matthew Kelcey, Jacob Devlin, Kenton Lee, Kristina N. Toutanova, Llion Jones, Ming-Wei Chang, Andrew Dai, Jakob Uszkoreit, Quoc Le, and Slav Petrov. Natural questions: a benchmark for question answering research. *Transactions of the Association of Computational Linguistics*, 2019.
- [8] Xiaodong Liu, Pengcheng He, Weizhu Chen, and Jianfeng Gao. Improving multitask deep neural networks via knowledge distillation for natural language understanding. 04 2019.
- [9] Xiaodong Liu, Pengcheng He, Weizhu Chen, and Jianfeng Gao. Multi-task deep neural networks for natural language understanding. 01 2019.
- [10] Siva Reddy, Danqi Chen, and Christoper Manning. Coqa: A conversational question answering challenge. 08 2018.
- [11] Ashish Vaswani, Noam Shazeer, Niki Parmar, Jakob Uszkoreit, Llion Jones, Aidan N Gomez, Ł ukasz Kaiser, and Illia Polosukhin. Attention is all you need. In I. Guyon, U. V. Luxburg, S. Bengio, H. Wallach, R. Fergus, S. Vishwanathan, and R. Garnett, editors, *Advances in Neural Information Processing Systems 30*, pages 5998–6008. Curran Associates, Inc., 2017.