deeplearning.ai

Overview

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Week 4

Natural Language Processing with Attention Models

Week 4

Discuss the topic here.

1 threads · Last post 18 hours ago

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Chatbot

Examine some unique challenges Transformer models face and their solutions, then build a chatbot using a Reformer model.

Key Concepts

- Explain the motivation for reversible layers
- Integrate locality sensitive hashing into attention layers
- Describe the Reformer model

⌃ **Less**

Chatbot

▶ **Video:** Tasks with Long Sequences   2 min   Resume

▢ **Reading:** Optional AI Storytelling   15 min

▶ **Video:** Transformer Complexity   3 min

▶ **Video:** LSH Attention   4 min

▢ **Reading:** Optional KNN & LSH Review   20 min

▭ **Lab:** Ungraded Lab: Reformer LSH   1h

▶ **Video:** Motivation for Reversible Layers: Memory!   2 min

▶ **Video:** Reversible Residual Layers   5 min

▭ **Lab:** Ungraded Lab: Revnet   1h

▶ **Video:** Reformer   2 min

▢ **Reading:** Optional Transformers beyond NLP   20 min

▢ **Reading:** Acknowledgments   10 min

Assignment

⟨/⟩ **Programming Assignment:** Chatbot   3h   Due Nov 2, 12:59 AM CST

Course Resources

▢ **Reading:** References   10 min