

What do you want to learn?





Go to forum





Overview

Week 1

Week 2

Week 3

Week 4

Grades

Notes

Discussion Forums

Messages

Course Info

Week 2

Natural Language Processing with Attention Models

Week 2

Discuss the topic here.

11 threads · Last post 8 hours ago

Text Summarization







Compare RNNs and other sequential models to the more modern Transformer architecture, then create a tool that generates text summaries.

Key Concepts

- · Describe the three basic types of attention
- Name the two types of layers in a Transformer
- Define three main matrices in attention
- Interpret the math behind scaled dot product attention, causal attention, and multi-head attention
- . Use articles and their summaries to create input features for training a text summarizer
- Build a Transformer decoder model (GPT-2)



Text Summarization ▶ Video: Transformers vs RNNs 6 min **▶ Video:** Transformer Applications 8 min ▶ Video: Dot-Product Attention 7 min ▶ Video: Causal Attention 4 min ▶ Video: Multi-head Attention 6 min Lab: Attention 1h ▶ Video: Transformer Decoder 5 min **▶ Video:** Transformer Summarizer 4 min Lab: The Transformer Decoder 1h Reading: Content Resource 10 min Assignment Programming Assignment: Transformer Summarizer 3h Due Oct 19, 1:59 AM CDT