



Overview

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Course Info

Week 4

Natural Language Processing with Sequence Models

Week 4

Discuss the topic here.

32 threads · Last post 2 hours ago

Go to forum

Siamese Networks



Learn about Siamese networks, a special type of neural network made of two identical networks that are eventually merged together, then build your own Siamese network that identifies question duplicates in a dataset from Quora.

Key Concepts

- One shot learning
- Triplet loss
- Cosine similarity
- Siamese networks
- Data generators

Less

Siamese Networks

▶ Video: Siamese Networks 2 min

Resume

▶ Video: Architecture 3 min

📄 Lab: Creating a Siamese Model using Trax 20 min

▶ Video: Cost Function 3 min

▶ Video: Triplets 6 min

▶ Video: Computing The Cost I 5 min

▶ Video: Computing The Cost II 6 min

📄 Lab: Lecture Notebook: Modified Triplet Loss 30 min

▶ Video: One Shot Learning 2 min

▶ Video: Training / Testing 3 min

📄 Lab: Evaluate a Siamese Model 20 min

Assignment: Question Duplicates

🔗 Programming Assignment: Question duplicates 3h

Due Oct 19, 1:59 AM CDT

📖 Reading: Acknowledgments 10 min