



Overview

Week 1

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Course Info

Week 2

Natural Language Processing with Probabilistic Models

Week 2

Discuss this week's modules here.
47 threads · Last post a day ago

Go to forum

Part of Speech Tagging and Hidden Markov Models



Learn about Markov chains and Hidden Markov models, then use them to create part-of-speech tags for a Wall Street Journal text corpus!

Key Concepts

- Markov chains
- Hidden Markov models
- Part-of-speech tagging
- Viterbi algorithm
- Transition probabilities
- Emission probabilities

Less

Lecture: Part of Speech Tagging

Video: Part of Speech Tagging 2 min

Lab: Lecture Notebook - Working with text data 20 min

Video: Markov Chains 3 min

Resume

Video: Markov Chains and POS Tags 4 min

Video: Hidden Markov Models 3 min

Video: Calculating Probabilities 3 min

Video: Populating the Transition Matrix 4 min

Video: Populating the Emission Matrix 2 min

Lab: Lecture Notebook - Working with text data 20 min

Video: The Viterbi Algorithm 3 min

Video: Viterbi: Initialization 2 min

Video: Viterbi: Forward Pass 2 min

Video: Viterbi: Backward Pass 5 min

Assignment: Part of Speech Tagging

Programming Assignment: Assignment: Part of Speech Tagging 3h

Due Oct 5, 1:59 AM CDT

