



What do you want to learn?









Overview

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Week 2

Natural Language Processing with Classification and Vector Spaces

Week 2

Discuss this week's modules here.

261 threads · Last post 19 hours ago

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Sentiment Analysis with Naïve Bayes









Learn the theory behind Bayes' rule for conditional probabilities, then apply it toward building a Naive Bayes tweet classifier of your own!

Key Concepts

- Error analysis
- · Naive Bayes inference
- Log likelihood
- Laplacian smoothing
- conditional probabilities
- Bayes rule
- Sentiment analysis
- Vocabulary creation
- Supervised learning



Lecture: Naive Bayes

▶ Video: Probability and Bayes' Rule 2 min

- ▶ Video: Bayes' Rule 3 min
- ▶ Video: Naïve Bayes Introduction 5 min
- ▶ Video: Laplacian Smoothing 2 min
- ▶ Video: Log Likelihood, Part 1 5 min
- ▶ Video: Log Likelihood, Part 2 1 min
- ▶ Video: Training Naïve Bayes 3 min
- Lab: Visualizing likelihoods and confidence ellipses 1h
- ▶ Video: Testing Naïve Bayes 4 min
- ▶ Video: Applications of Naïve Bayes 3 min
- ▶ Video: Naïve Bayes Assumptions 3 min
- ▶ Video: Error Analysis 3 mln

Assignment: Naive Bayes

Programming Assignment: Assignment: Naive Bayes 3h Due Oct 5, 1:59 AM CDT