deeplearning.ai

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Course Info

Week 1

Natural Language Processing with Sequence Models

Week 1

Discuss this week's modules here.

84 threads · Last post a day ago

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Neural Networks for Sentiment Analysis

Learn about neural networks for deep learning, then build a sophisticated tweet classifier that places tweets into positive or negative sentiment categories, using a deep neural network.

Key Concepts

- Feature extraction
- Supervised machine learning
- Binary classification
- Text preprocessing
- ReLU
- Python classes
- Trax
- Neural networks

⌃ Less

Neural Networks for Sentiment Analysis

▶ **Video:** Course 3 Introduction   3 min   **Resume**

▢ **Reading:** Connect with your mentors and fellow learners on Slack!   10 min

▶ **Video:** Neural Networks for Sentiment Analysis   3 min

▶ **Video:** Trax: Neural Networks   2 min

▶ **Video:** Why we recommend Trax   13 min

▢ **Reading:** Reading: (Optional) Trax and JAX, docs and code   15 min

▭ **Lab:** Lecture Notebook: Introduction to Trax   30 min

▶ **Video:** Trax: Layers   3 min

▭ **Lab:** Classes and Subclasses   20 min

▶ **Video:** Dense and ReLU Layers   1 min

▶ **Video:** Serial Layer   1 min

▶ **Video:** Other Layers   3 min

▶ **Video:** Training   2 min

▭ **Lab:** Data Generators   20 min

Assignment: Sentiment with Deep Nets

</> **Programming Assignment:** Sentiment with Deep Neural Networks   3h   Due Sep 28, 1:59 AM CDT

▢ **Reading:** How to Refresh your Workspace   10 min