Implement Natural Language Processing for Word Embedding

Why Process Text?



Axel Sirota
Al and Cloud Consultant

@AxelSirota



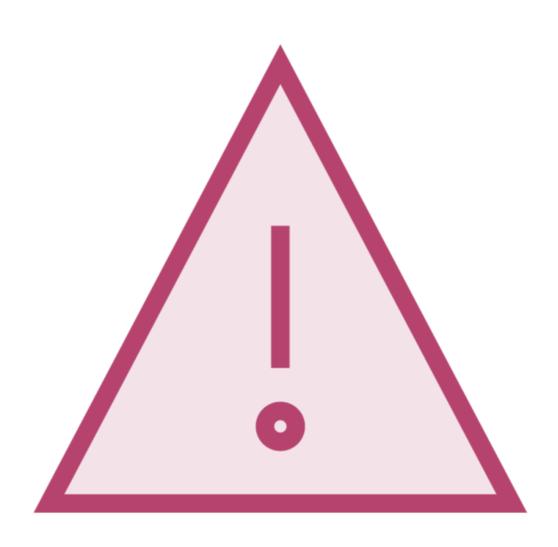
https://www.shutterstock.com/image-photo/nlp-natural-language-processing-neuralnetwork-1911471991

Old NLP Paradigm



Three Main Problems









Language similarity

https://www.shutterstock.com/image-vector/data-slice-volume-distribution-functionpoint-1793316466

Globomantics Requirements



Getting the Best out of This Course

Prerequisites

Required

- Basics of Machine Learning
- Basics of PyTorch
- Basic Python

Course Suggestions

- Core Python 3.6: Getting Started
- Foundations of PyTorch

Not Needed

- No NLP knowledge required

More Resources

Table of contents Description Transcript Exercise files **Discussion** Learning Check Related Courses









AUTHOR TOOLS



Home



Analytics



Author's nest



Author kit



Axel Sirota 🐠 Pluralsight Author



133 Followers



Ask Me on Twitter

@AxelSirota

GitHub Repository for the Course

axel-sirota add all		429f0d2 11 hours ago 🖰 4 commits
module3	add all	11 hours ago
module4	add all	11 hours ago
	module 3 demos	3 days ago
LICENSE	Initial commit	4 days ago
□ README.md	Initial commit	4 days ago
requirements.txt	add structure	2 days ago
workspace.yml	module 3 demos	3 days ago

https://github.com/axel-sirota/implement-nlp-word-embedding/

This course sets you on track for any deeper course in NLP

Implement Natural Language Processing for Word Embedding

Version Check

Version Check



This version was created by using:

- Python 3.9
- PyTorch 1.11
- TorchText 0.11

All of which are the ones installed in **Google Collaboratory**

Version Check



This course is 100% applicable to:

- Python 3.6 and above
- PyTorch 1.8 and above
- TorchText 0.9 and above

If in doubt of compatibilities, please check https://pypi.org/project/torchtext/
#Installation

Version Check



This course is 90% applicable to:

- Python 3.5
- PyTorch 1.0 to PyTorch 1.8 (not inclusive)

It will only change some utility methods from torchtext, which you can ask me if you are in such a situation.

Not Applicable



This course is NOT applicable to:

- Python 3.4 or below
- PyTorch strictly below 1.0

Outline of the Course

Training Word Representations

Predict sentiment with OHE
Train and predict with
Word2Vec

Final Thoughts

Key Takeaways

Fine Tuning Word Representations

Fine Tune FastText and Glove
Visualise word clusters
Debiase word embeddings

