

Homework 0

Main objective

The goal of this assignment is to encourage you to study various natural language processing (NLP) topics independently. For this homework, you will need to prepare a 5-7 minute presentation describing one of the following:

- An NLP algorithm of your choice. This can be any algorithm you would like to learn more about including the ones we already discussed or will discuss in class. Example: Topic models (https://en.wikipedia.org/wiki/Topic_model).
- An NLP dataset. For inspiration look at the datasets posted here: <https://github.com/niderhoff/nlp-datasets>
- An NLP task. For inspiration look at the SemEval tasks:
 - <http://alt.qcri.org/semeval2017/index.php?id=tasks>
 - <http://alt.qcri.org/semeval2018/index.php?id=tasks>
 - https://en.wikipedia.org/wiki/Natural_language_processing#Major_evaluations_and_tasks
- An area of NLP we will probably not cover in class. Please include the basic problem formulation and a high-level overview of existing solutions. Example: machine translation.
- An NLP paper of your choice published in a major conference. Most major NLP conferences archive their proceedings here: <http://www.aclweb.org/anthology/>.
- An interesting application of NLP.
- Open-source NLP software. Example: <https://opensource.com/business/15/7/five-open-source-nlp-tools>
- A newsworthy item related to NLP.
- Anything else related to NLP.

At the end of your presentation we will allocate a few minutes for questions and discussion.

Logistics

Please add your name to the presentation signup sheet as soon as possible:

Signup Sheet

(‘signup sheet’ is clickable)

We will have at most two presenters per class. Signing up early will give you more options.

Resources

For inspiration, feel free to study the following resources:

- <https://medium.com/tag/nlp>
- <https://medium.com/tag/naturallanguageprocessing>
- <https://www.reddit.com/r/LanguageTechnology/>
- <https://arxiv.org/list/cs.CL/recent>
- <http://newsletter.ruder.io>
- <https://techcrunch.com/tag/nlp/>
- <https://techcrunch.com/tag/natural-language-processing/>
- <https://www.google.com>

If you find any other interesting resources, please feel free to post them on Slack!

Good luck!