

Project (35 points).

The Final Project is a research project.

You can work in teams of two.

The goal of the project is to perform a research project applying Deep Learning Techniques and Natural Language Processing tasks. Acceptable project ideas involve either a modification to an existing approach to a problem, or a novel problem entirely. You can reimplement an existing work (paper). In this case you are required to make one step beyond the paper implementation and have an add-on component (e.g., use of an additional mode, use of a different set of word vectors, etc.)

Note: a successful project does not need to generate state-of-the-art results. Novelty, however, is expected. A short report on the algorithm, dataset/problem, and evaluation is expected as part of the project.

Deadlines:

- April 1 (5 points): 5-minute presentation of the proposal.
- May 15 (5 points), 5-minute presentation with 4 minutes of follow-up questions
- May 15 (25 points), submission of the work (via Google Forms). Submission should include 2 files (one .pdf and one .ipynb file):
 - Pdf file (10 points): An ACL / EMNLP formatted project write-up, up to 4 pages long including references.
 - **Introduction** section with the problem statement.
 - **Data** section with the description of the corpus (corpora) that you use for the experiments.
 - **Tools and methods** section with list of tools, classification techniques and tools that you use.
 - **Experiment** section with the description of the experiment set-up.
 - **Evaluation** section with the results of your experiments
 - (15 points) .ipynb Notebook with the experiment described in the write-up.

- The notebook should contain the outputs for the cells that produce the outputs.
- The notebook should have comments regarding the experiment steps and the expected output.
- Every cell in your notebook should be executable. If you are using libraries beyond the ones that are used in NLTK (for example, PyTorch), before calling these libraries, list them in a separate notebook cell in the very beginning of the notebook.

ACL / EMNLP formatting requirements together with the template LaTeX and MS Word files can be found here: <http://emnlp2018.org/calls/papers/> (look for the formatting requirements section).