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Part of Speech Tagging

REVIEW

CODE REVIEW

HISTORY

Meets Specifications

Great job, you are ready to go! 🎉 Clearly, you have acquired all the important concepts from this project. Wish you all the best for the upcoming projects! 🙌

Tip: For better understanding Speech Tagging, I strongly suggest that you could read [this great tutorial](#) for getting familiar with the [Viterbi algorithm](#) and Laplace Smoothing.

General Requirements

- Includes `HMM_Tagger.ipynb` displaying output for all executed cells
- Includes `HMM_Tagger.html`, which is an HTML copy of the notebook showing the output from executing all cells

Great job, you carefully submit all the required files. 🙌

Submitted notebook has made no changes to test case assertions

Well done, you make no changes to unit tests. 🎉

Baseline Tagger Implementation

Baseline Tagger Implementation

Emission count test case assertions all pass.

- The emission counts dictionary has 12 keys, one for each of the tags in the universal tagset
- "time" is the most common word tagged as a NOUN

Fantastic, you perfectly complete the `pair_counts` function and correctly generate `word_counts` and `mfc_table`. 🎉

Baseline MFC tagger passes all test case assertions and produces the expected accuracy using the universal tagset.

- >95.5% accuracy on the training sentences
- 93% accuracy the test sentences

Excellent, your baseline tagger achieve required training and test accuracies 🎉

Calculating Tag Counts

All unigram test case assertions pass

Good job! 🎉 You successfully build the `unigram_counts` function. 🎉

All bigram test case assertions pass

Good, your `bigram_counts` is correct and clean 🎉

All start and end count test case assertions pass

Well done, you correctly build `starting_counts` and `ending_counts`. 🎉

Basic HMM Tagger Implementation

All model topology test case assertions pass

Fantastic, you successfully put unigrams and bigrams in the final model 👍

Basic HMM tagger passes all assertion test cases and produces the expected accuracy using the universal tagset.

- >97% accuracy on the training sentences
- >95.5% accuracy the test sentences

Your HMM Tagger has nice training/test accuracy 🏆

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