UDACITY

PROJECT

Build a Sign Language Recognizer

A part of the Artificial Intelligence Nanodegree and Specializations Program

PROJECT REVIEW

CODE REVIEW 2

NOTES

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Meets Specifications

Congratulations on passing the project!

All the best and stay Udacious

PART 1: Data

1. **Student provides correct alternate feature sets: delta, polar, normalized, and custom.**
2. **Student passes unit tests.**
3. **Student provides a reasonable explanation for what custom set was chosen and why (Q1).**

Great selection of custom features. You may also try combinations of several techniques mentioned, such as polar with scaling, which will further improve your results in Part 3.

PART 2: Model Selection

1. **Student correctly implements CV, BIC, and DIC model selection techniques in "my_model_selectors.py".**
2. **Student code runs error-free in notebook, passes unit tests and code review of the algorithms.**
3. **Student provides a brief but thoughtful comparison of the selectors (Q2).**

The models are implemented correctly and the answers provided are also well written.
You have noted well that the BIC model penalizes the complexity, which it does in order to avoid overfitting.
Similarly, the reasoning giving for DIC and CV are on spot.

PART 3: Recognizer

1. **Student implements a recognizer in "my_recognizer.py" which runs error-free in the notebook and passes all unit tests**
2. **Student provides three examples of feature/selector combinations in the submission cells of the notebook.**
3. **Student code provides the correct words within <60% WER for at least one of the three examples student provided.**
4. **Student provides a summary of results and speculates on how to improve the WER.**

Well done! You have provided results from several combinations and summarized your answers well.
You have provided good insights into how to improve our WER scores:

- Contextual information, such as more info about adjacent words are indeed very helpful in further understanding the meaning of sentences. Do try the n-gram models in Part 4, which talk about a similar concept.
- Improved datasets are definitely a good way to improve our models, in fact any model can benefit with a more substantial dataset.

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2 CODE REVIEW COMMENTS ›

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