

## PROJECT

### Build a Sign Language Recognizer

A part of the Artificial Intelligence Program

## PROJECT REVIEW

### CODE REVIEW 4

### NOTES

SHARE YOUR ACCOMPLISHMENT!  

### Meets Specifications

The project has met all the specifications. Hope you enjoyed working on all the 4 projects. Good luck for term2 🍀

#### 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).

The custom set of features is correctly implemented. The answer to Q1 is well written and the unit-tests pass! 👍

#### 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).

Note: the results of CV have fewer states than BIC/DIC for the five words given.  
SelectorCV uses KFold and the "combine\_sequences" correctly. The tests run error free. The formula for BIC and DIC is well implemented.  
A good comparison between the model selection techniques has been made 👍

#### 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.

The script for my\_recognizer.py is correctly implemented and runs error free.  
Three examples of feature/selector combinations are provided.  
Atleast one example for correct words within <60% WER is provided.  
Results have been well summarized. Impressive 👍  
Part 4 could be implemented to know more about how the WER score could improve using SLM techniques.