F’20 CSE 518: Homework 2

Implementing the Shark2 Decoder

Due : 11:59 PM EST on October 30th, 2020

Aim: Given a dictionary containing 10000 words, use SHARK2 algorithm to decode a user input gesture and output the best decoded word.

A close up of a keyboard

Description automatically generated

Procedure:

1. Read the paper : <http://pokristensson.com/pubs/KristenssonZhaiUIST2004.pdf>
2. Implement using code template in the file server.py

What you should turn in: <Name>\_<ID>\_server.py and <Name>\_<ID>\_README.txt zipped together in a folder named <Name>\_<ID>\_HW2 on blackboard.

Grading Criteria:

Total : 100 points

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| normalization | Pruning | location channel | shape channel | best word | overall decoding speed |
| 20 | 20 | 20 | 20 | 10 | 10 |

We will deduct 10 points for every day late.