Department of Computer Engineering,

University of Jaffna

EC9640: Artificial Intelligence

Lab 01

ILO: Apply the basic principles, models, and algorithms of Artificial Intelligence to solve problems;

You are given a spell checking application. It uses fuzzywuzzy library where we can have a score out of 100, that denotes two string are equal by giving similarity index. This article talks about how we start using fuzzywuzzy library. FuzzyWuzzy is a library of Python which is used for string matching. Fuzzy string matching is the process of finding strings that match a given pattern. Basically it uses Levenshtein Distance to calculate the differences between sequences.

Create a document output.pdf.

1. Execute the given application and find the spelling suggestions for the given example. Place the screenshot in the output file.
2. Design your own heuristic to list the word suggestions for the spelling mistake. Write your heuristic in the output file.
3. Implement and replace the suggestions function of the given application with your own heuristic in question 02.
4. Compare five different example sentences for your own heuristic with the fuzzywuzzy matching of the given application. Place the screenshots in the output file.

Submit the spell checker application folder and the output file.