AUTOMATIC SENCTENCE SIMPLIFICATION MODULE (LEXICAL)

Input Sentence (Can be simple / complex) → Tokenize the sentence to obtain words → Remove Stop Words from the obtained list

Feature Extraction Module (FEM)

- Get Length of Word
- Get Syllable Count
- Find Etymology
- Calculate number of morphemes
- Find familiarity of a word in the corpus

Obtain the context (frequency of word appearing with the list of preceding words) Basically using n-Gram

Obtain ambiguity in terms of sense of the sentence

Word Substitution Ranking Module (WSRM)

- Obtain possible synonyms of the words based on POS and sense of the word in the sentence
- Compute the score between the given word and synonyms of the word
- Rank the word according to their minimum - maximum score

Result Fetching Module (RFM)

Substitute the word with Rank 1

Lexically Simplified Sentence