## Advanced Features

## 1. Token Features

- **cwc\_min**: This is the ratio of the number of common words to the length of the smaller question
- **cwc\_max**: This is the ratio of the number of common words to the length of the larger question
- **csc\_min**: This is the ratio of the number of common stop words to the smaller stop word count among the two questions
- **csc\_max**: This is the ratio of the number of common stop words to the larger stop word count among the two questions
- **ctc\_min**: This is the ratio of the number of common tokens to the smaller token count among the two questions
- ctc\_max: This is the ratio of the number of common tokens to the larger token count among the two questions
- last\_word\_eq: 1 if the last word in the two questions is same, 0 otherwise
- first word eq: 1 if the first word in the two questions is same, 0 otherwise

## 2. Length Based Features

- mean\_len: Mean of the length of the two questions (number of words)
- **abs\_len\_diff**: Absolute difference between the length of the two questions (number of words)
- **longest\_substr\_ratio**: Ratio of the length of the longest substring among the two questions to the length of the smaller question

## 3. Fuzzy Features

- **fuzz\_ratio**: fuzz\_ratio score from fuzzywuzzy
- **fuzz partial ratio**: fuzz partial ratio from fuzzywuzzy
- **token\_sort\_ratio**: token\_sort\_ratio from fuzzywuzzy
- **token\_set\_ratio**: token\_set\_ratio from fuzzywuzzy

FuzzyWuzzy: Fuzzy String Matching in Python - ChairNerd

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https://en.wikipedia.org/wiki/Wikipedia%3aList of English contractions