The correct word should be in the dictionary – which is not always true

The assumption is not always true. P(gi)is not always the same. For example, the probability of substitute u for l is less probable that k for l since k is closer to l

We choose the p, p is the weighting factor that we can tune between the minimum distance and the prior probability. (view it as a parameter of the algorithm, and find something that works well.

We choose an arbitrary very small number for p. when p is small, so that the first term outweighs the second, so what we get is a word with minimum edit distance and particular the one that has the highest prior probability. ‘tge’ would have many words with 1 edit distance, the one with the highest prior probability wins.

in my code, P(w) is not the prior probability of author having written w, instead is the frequency of the particular word divided by the total frequency of all words(the frequency of a word in English).

If the true word is not in the dictionary