**AN ENHANCED OFFLINE BASED SEMANTIC PARAPHRASING TOOLS USING CONTEXTUAL INFORMATION CORPUS**

**CHAPTER ONE**

**INTRODUCTION**

According to research and sturdy it has been noted that academic writing has become a very key aspect in writing skill, and it is known to be the most difficult task in academic writing. University student as trouble in construction and organization of grammar, paragraph organization, diction and spelling (Inayah & Sulistyaningrum, 2021).

Natural language processing can also be considered as extraction of information from text based on semantic representation. The semantic representation model the concept and relationship between the concept that is most relevant to the target domain, and document. However, the semantic representation must support further processing of the extracted document or text required by the natural language processing application (Kadlaskar, 2021).

Wordnet is a huge lexical database of English words. It’s basically grouped into four database, thus the Nouns, verbs, adjective and the adverbs database (McCrae et al., 2020). It is also categories into set of cognitive synonyms (synset) in which each of the synset express a distinct concept. The Synset thus synonyms of word are being interlinked by means of conceptual semantic and lexical relations. This make wordnet a very useful tool for computation linguistics and natural language processing.

Paraphing tools, which can still be refers to as content spinner, article rewriter, or simple a sentence restructurer. The basic task of a paraphrasing tools is to rewrite the content of a sentence. A paraphraser re-words sentence in order to solve plagiarism issues, although it try to maintain the entire semantic or meaning of the sentence, in other to keep the contextual information intact. Student has found it difficult to properly paraphrase content of the benchmark papers with lead to copying of most content of the source document (Inayah & Sulistyaningrum, 2021). They are many paraphrasing mostly online, this include paraphrasing-tool.com, prepotseo.com, quilbot.com, spinbot.com and the rest (Inayah & Sulistyaningrum, 2021).

**1.1 Aim and objectives**

The aim of this research work is to developed a desktop based paraphrasing tool using contextual information corpus (wordnet). To actualize this, the following objectives as to be attained.

1. To design the proposed system
2. To Implement the design
3. To evaluate the proposed system

**1.2 Problem Statement**

They a many available paraphrasing too available in which most are online based and are paid re-writers tool. All this paraphrasing tool present user with limited contextual information, thus users can only make use of synonymous word used by the tool itself apart from the word restructuring, absent of word meaning. This limitation affects the original contextual intention of the copied document. But with a desktop-based application user can download one’s and use anywhere without internet connection. This research work will employ wordnet (thus a python module) to improve on paraphrasing which will provide enough contextual information while using the application.

**1.3 Significant of the Study**

Considering the educational sector, which consist of researchers and student trying to create educational content. This research work will be of great important to such sector in recreating, restructuring or paraphrasing textual content. This research work will also benefit or be highly useful to news paper industries for creating text content, getting word synonyms, antonyms, meronyms easily. This will also be significant to other area such as radio and TV media, web content writing and the likes.

**1.4 Scope and Limitation**

The research work only focus on improving the contextual information or data generated by an offline paraphrasing tools, other tools are not considered in this sturdy such as the online based paraphrasing tools.