Report Of Task - 2

Paper title: From human writing to artificial intelligence generated text: examining the prospects and potential threats of ChatGPT in academic writing.

Paper Link:

Summery:

1.1 Motivation:
The thesis is motivated by the rapid development of Natural Language Processing (NLP) technology, particularly exemplified by ChatGPT and similar models. The increasing use of these instruments in scholarly research, along with their possible efficiency gains, has raised both curiosity and alarm. The foundation of this research is an understanding of the reasons for using NLP in academic work and an awareness of its consequences for scientific methods.

1.2 Contribution:
The primary contribution of this thesis lies in critically examining the role of NLP, specifically ChatGPT, in academic research. It emphasizes appropriate use while offering insights into the benefits and drawbacks of utilizing such technology. One concrete step toward preserving the integrity of scientific research in the face of rapidly advancing artificial intelligence (AI) technology is the suggestion for a plagiarism detector program that resembles a checker for text produced by large language models (LLMs).

1.3 Methodology:
The methodology involves a comprehensive literature review, exploring the evolution of NLP technology, examining case studies, and analyzing the impact of ChatGPT on various academic disciplines. The study integrates knowledge from various sources, such as research on ChatGPT's uses in sports science, media, and healthcare. The technique places a strong emphasis on taking a balanced approach, taking into account both the possible advantages and disadvantages of using LLMs.

1.4 Conclusion:
In conclusion, the thesis emphasizes the need for a nuanced approach to incorporating NLP tools like ChatGPT into academic research. The thesis stresses the need to uphold ethical norms, openness, and academic integrity while admitting their potential to increase efficiency. One useful step toward reducing potential hazards is the suggested software for identifying LLM-generated content.

2. Limitations:
2.1 First Limitation:
The thesis's first constraint is related to how the academic environment is changing, especially in quickly developing subjects like sports science. It's difficult to stay current with research because of ChatGPT's training data constraints, which expire in September 2021. This could result in responses that are out of date or biased.

2.2 Second Limitation:
One significant drawback is the difficulty presented by skewed or false information that is widely available online, particularly in disciplines like sports science. The thesis stresses the necessity for scholars to prioritize peer-reviewed material and exercise caution when using non-academic sources, acknowledging the risks involved.

3. Synthesis:
This thesis's synthesis demonstrates a sophisticated comprehension of the function of NLP, particularly ChatGPT, in scholarly research. Although the thesis acknowledges the possible benefits in terms of automation and efficiency, it also stresses the need for responsibility, ethical issues, and care. The suggested software, which resembles a plagiarism checker, is a useful step toward mitigating the possible hazards connected to the use of LLMs in academic settings. All things considered, the synthesis urges cooperation between the scientific community, decision-makers, and the general public to guarantee the moral and open application of NLP technology in scholarly research.