

Technology Review

In this technical review, the process of theoretical literature review described above was followed, and keywords were searched in Google Scholar by entering 'Unemployment rate information system' in Google Scholar. We also briefly looked at OpenAI in terms of access to information services.

The article of Alkhayyat et al.(2022) analyzed the ability of three classifiers to predict post-graduation unemployment periods based on university major and discusses the potential for developing real-life applications using this research. Similarly, this research by Han et al.(2022) analyzed the impact of platform self-regulations on crime rates in the home-sharing market, finding that such regulations can reduce crime, with variations in the impact based on the type of crime and neighborhood characteristics. Also, according to the research by Ang and Dong (2022), the study examines the relationship between movement restrictions, COVID-19 infection cases, and unemployment rate, revealing a tradeoff between public health and the economy and finding that unemployment rates rise when governments impose more stringent movement restrictions but also that a higher unemployment rate leads to lower stringency of movement restrictions.

Considering the brief technical literature as above, the attempt of this project is meaningful in that there are not many studies on the unemployment rate information system. So, additionally, research related to the OpenAI system was explored with a focus on the goal of information service access.

According to Mijwil et al. (2023)'s study, ChatGPT is a large language model developed by OpenAI that generates human-like responses and can be used for various tasks such as chatbots, translation, text completion, and creative writing, and can be applied across different industries. As well, the study by Kirtania and patra (2023) analyzed the contents generated by OpenAI ChatGPT using selected terminologies from the Library and Information Science (LIS) field and finds that only 13% similarity was detected after checking the content with a plagiarism tool, indicating the potential usefulness of ChatGPT for generating academic content with high academic integrity. Similarly, Perlman (2022)'s research discussed the release of OpenAI's ChatGPT chatbot, its potential to transform various aspects of society, and the regulatory and ethical issues it raises, highlighting that the disruptions from AI are no longer in the distant future. Recently, the study by Panda and Kaur (2023) explored the feasibility of using ChatGPT-based chatbot systems as an alternative to traditional knowledge base-based chatbot systems in library and information centers, finding that ChatGPT-based chatbots are a viable alternative with advantages and limitations, and providing insights for future use of this technology in the information service industry.

It can be seen that most recent studies related to OpenAI's information service are mostly about ChatGPT. Therefore, it shows that a system that makes unemployment rate information more accessible is necessary to be made by OpenAI. So, the technical studies related to OpenAI system development share a common feature - they prioritize designing AI systems that cater to the user's requirements. Therefore, this project also acknowledges the importance of user requirements and prioritizes designing user-centered AI systems, which should serve as the foundation for future developments in AI platforms.

References

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