

Developing machine learning models for the problem of prescribing Traditional Chinese Medicine

Do Tat Cong

Abstract: The thesis addresses the challenge of digitizing traditional medicine by building an automatic prescription recommendation system based on machine learning. The author combined ICD-10 encoding with Vietnamese clinical data to create models for predicting suitable medicinal herbs for each patient. The research applies language models such as PhoBERT to deeply understand diagnostic texts, thereby optimizing treatment regimens. The system provides strong support for doctors in referencing and standardizing modern Eastern medicine prescription processes.

Keywords: Traditional medicine, Automated prescription, Machine learning

References

- [1] D. Q. Nguyen et al., "PhoBERT: Pre-trained language models for Vietnamese," Findings of EMNLP, 2020.
- [2] Q. T. Tran et al., "Applying natural language processing for Vietnamese medical text classification," in Proc. IALP, 2020.
- [3] P. Domingos, "A few useful things to know about machine learning," Communications of the ACM, 2012.