Weekly Machine Learning Newsletter

Top Research Papers

- **Prompt Engineering for Healthcare: Methodologies and Applications** - [arxiv.Result.Author('Jiaqi Wang'), arxiv.Result.Author('Enze Shi'), arxiv.Result.Author('Sigang Yu'), arxiv.Result.Author('Zihao Wu'), arxiv.Result.Author('Chong Ma'), arxiv.Result.Author('Haixing Dai'), arxiv.Result.Author('Qiushi Yang'), arxiv.Result.Author('Yanqing Kang'), arxiv.Result.Author('Jinru Wu'), arxiv.Result.Author('Huawen Hu'), arxiv.Result.Author('Chenxi Yue'), arxiv.Result.Author('Haiyang Zhang'), arxiv.Result.Author('Yiheng Liu'), arxiv.Result.Author('Xiang Li'), arxiv.Result.Author('Bao Ge'), arxiv.Result.Author('Dajiang Zhu'), arxiv.Result.Author('Yixuan Yuan'), arxiv.Result.Author('Dinggang Shen'), arxiv.Result.Author('Tianming Liu'), arxiv.Result.Author('Shu Zhang')]
  2023-04-28 08:03:42+00:00
  Prompt Engineering for Healthcare: Methodologies and Applications Natural language processing (NLP) has been an increasingly popular field in healthcare, with the potential to revolutionize the way we manage healthcare data. Prompt engineering, a technique often used in NLP, has shown significant contributions to healthcare NLP applications such as question-answering systems, text summarization, and machine translation. Prompt engineering involves crafting specific descriptions or templates for an NLP model to follow, directing the model to generate more relevant and accurate responses. With the continuous improvement of large language models, the importance of prompt engineering in the healthcare domain is becoming increasingly prominent. In a recent review titled "Prompt Engineering for Healthcare: Methodologies and Applications", the authors provide a brief overview of the development of prompt engineering and emphasize its significant contributions to healthcare NLP applications. The article also serves as a useful resource for healthcare NLP researchers to explore the potential applications of prompt engineering in this field. One application of prompt engineering in healthcare is question-answering systems. Prompt engineering can be used to direct the model to focus on specific types of queries, such as medication or diagnosis-related questions, and provide more accurate responses. This can be especially useful in medical chatbots and virtual assistants for patients. Another application is text summarization, where prompt engineering can be used to prompt the model to generate a summary of a longer medical document, such as a patient's medical history or a clinical trial report. This can save significant time for healthcare professionals who need to quickly identify relevant information. Machine translation is also an area where prompt engineering can be useful in healthcare. Language barriers can often be a challenge in healthcare settings, particularly for patients for whom English is not their first language. With prompt engineering, the model can be directed to generate translations that are specifically tailored to medical terminology. Overall, this review serves as a useful resource and bridge for healthcare NLP researchers to better explore the application of prompt engineering in this field. As the authors hope, it provides new ideas and inspires ample possibilities for research and application in medical NLP. The use of prompt engineering has the potential to significantly improve healthcare NLP applications and ultimately, patient care.

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