

Design and implementation of an optical character recognition system and invoice information extraction using computer vision combined with large language models.

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Abstract: This topic focuses on designing and implementing an Optical Character Recognition (OCR) system capable of processing and extracting information from invoices. The context of the topic is set in reality, where invoice data management is becoming increasingly complex. The objective of the research is to build an efficient system to improve the process of classifying and collecting information from invoice images. The method combines computer vision for character recognition and large language models (NLP) for extracting key content. The system is expected to bring significant applications in document management and business data analysis, contributing to the development of OCR technology.

Keywords: Optical character recognition system, Computer vision, Large language model, Invoice information extraction, Document management