



PRESCRIBED MEDICINE DETECTING AND GIVE INFORMATION ABOUT MEDICINES USING TESSERACT OCR

Project Specification Design and Prototype Document

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ABSTRACT

It can be challenging for the general public and some pharmacists to understand the prescriptions that doctors have prescribed because their handwriting is often unreadable. They will deal with dozens of patients each day and be overworked, so it is not ideal for them to write the prescription calmly and methodically. Their handwriting is hence unreadable. However, the manual reading of prescriptions can be time-consuming and prone to errors, potentially leading to incorrect medication dispensing and patient harm. This could lead to short form reports or prescriptions written in cursive that a regular person or pharmacist wouldn't be able to read properly, resulting in prescribed medications being misspelled.

The proposed platform uses machine learning algorithms to accurately identify and interpret the text in the prescription. The Tesseract OCR model can recognize handwritten and typed text, making it applicable for both paper-based and electronic prescriptions. Normally everyone uses the medicines according to the doctor's instructions, but this platform also includes how to take the prescribed drugs and more details about the medicines. So, the patient will get a good understand about the medicines they taking.

Overall, the proposed platform can help healthcare providers to streamline their prescription reading process, reduce errors, and improve patient safety. By digitizing prescriptions and automating the prescription reading process, healthcare providers can save time and resources, while ensuring that patients receive the correct medications and dosages.

Keywords: Optical Character Recognition, Machine Learning, Prescription Reading, Healthcare, Patient Safety.