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Handwritten Prescription Analysis

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Abstract

Doctors are issuing a prescription to patients, which have prescribed medicines for relevant illness/disease. Usually, these prescriptions are handwritten documents. In general, every person has a unique handwriting style. When it comes to doctors' handwritings, the written content is mostly unidentifiable. Majority of them use cursive handwriting style to write. Therefore, the written content of the prescription is mostly incomprehensible. It requires a lot of training to understand what is written in cursive handwriting. Since it contains medical information, it needs to be interpreted properly.

As a solution for the above-mentioned problem, from this research the author has proposed a solution to develop a system where the user can upload the image of the prescription and make it interpretable. Therefore, the pharmacist can issue medicines according to the interpreted prescription. The system will use a dataset extracted from prescriptions to train the machine learning model to convert the handwritten characters to digital text.

Keywords: Handwritten Character Recognition, Prescription, Machine learning, Image-processing