

PRESCRIPTION LABEL READING

DETAILED PROJECT REPORT

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PROJECT DETAILS

PROJECT TITLE	Prescription Label Reading
TECHNOLOGY	Deep Learning Technology (Computer Vision)
DOMAIN	Healthcare
PROJECT DIFFICULTY LEVEL	Intermediate
PROGRAMMING LANGUAGE USED	PYTHON
TOOLS USED	JUPYTER NOTEBOOK

OBJECTIVE

- To build a solution that should recognize and identify the text in the prescriptions and should read out the name of medicines and dosage limits to the visually impaired patients.

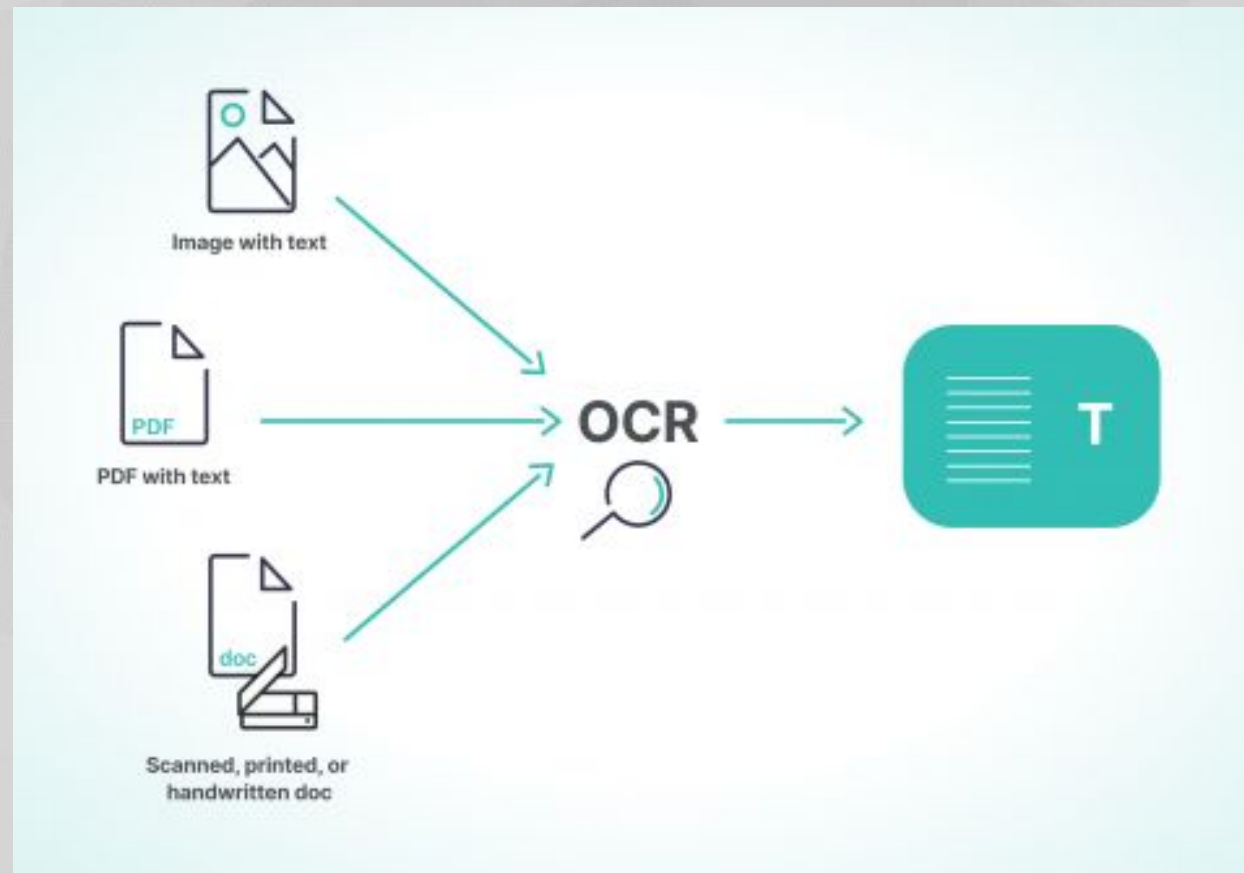
PROBLEM STATEMENT

- Support elderly or vulnerable patients should be a focus for many businesses. This is especially true for those in the health care sector. Enabling voice messages can make it easier for elderly people to understand your message. Text-to-Speech can provide peace of mind by empowering you to give better services.
- For example, we could even send voice messages that read prescription labels. This can be a real challenge for anyone with reading difficulties, not to mention the elderly and visually impaired. A talking label, sent straight to your device, makes it easy to know everything about your medication. Dosage info can also be tracked and shared with caregivers.

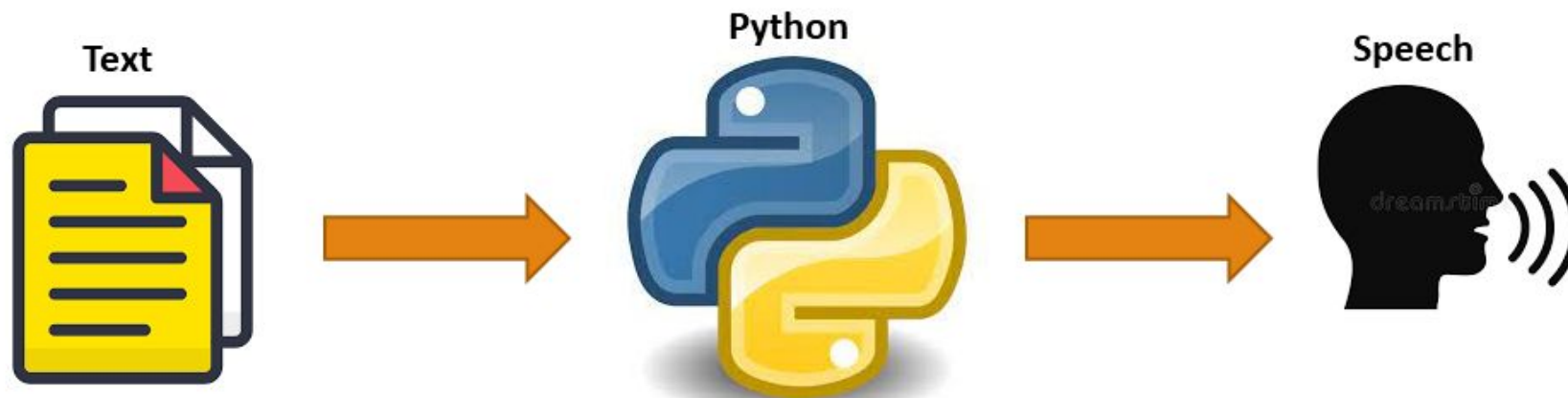
APPROACH

- We need to apply OCR techniques to extract the text data from the prescriptions and convert them into speech.

ARCHITECTURE



Text to Speech using Python



PROCESS

- STEP 1: upload an image.
- STEP 2: Extracts Text Region.
- STEP 3: Extracted text region undergoes text binarization and recognition.
- STEP 4: Text recognition is performed by OCR.
- STEP 5: Displaying label in the form of text.
- STEP 6: Text is converted to speech.

CONCLUSION

- We are able to obtain text data from an image and can convert into speech form with choice of language.



Thank You!