



Sign Board Translation

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Problem Statement

Develop an App which translates the text written on a signboard to another language as desired by the user.

The user will just point at the signboard using the camera of his/her phone and the App should then translate the text written on the signboard.



Requirements

Python Libraries

1. Numpy
2. Scipy
3. Scikit-learn
4. TensorFlow
5. PyTorch
6. Pandas
7. OpenCv
8. Matplotlib

Requirements

Editors

1. Sublime Text Editor
2. Jupyter Notebook
3. Android Studio

Datasets

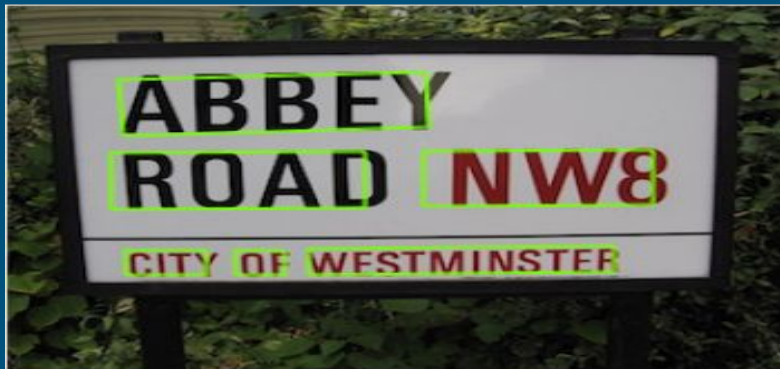
- Images with text area highlighted
- Images with text and text label
- Language translation dataset

Roles

NAME	ROLE
Bala	Model selection
Ganesh	Exploratory Data analysis
Danish	Model training
Hrishikesh	Model Evaluation
Asish	Dataset Collector

Modules

Text region detection



Modules

Recognition of individual characters

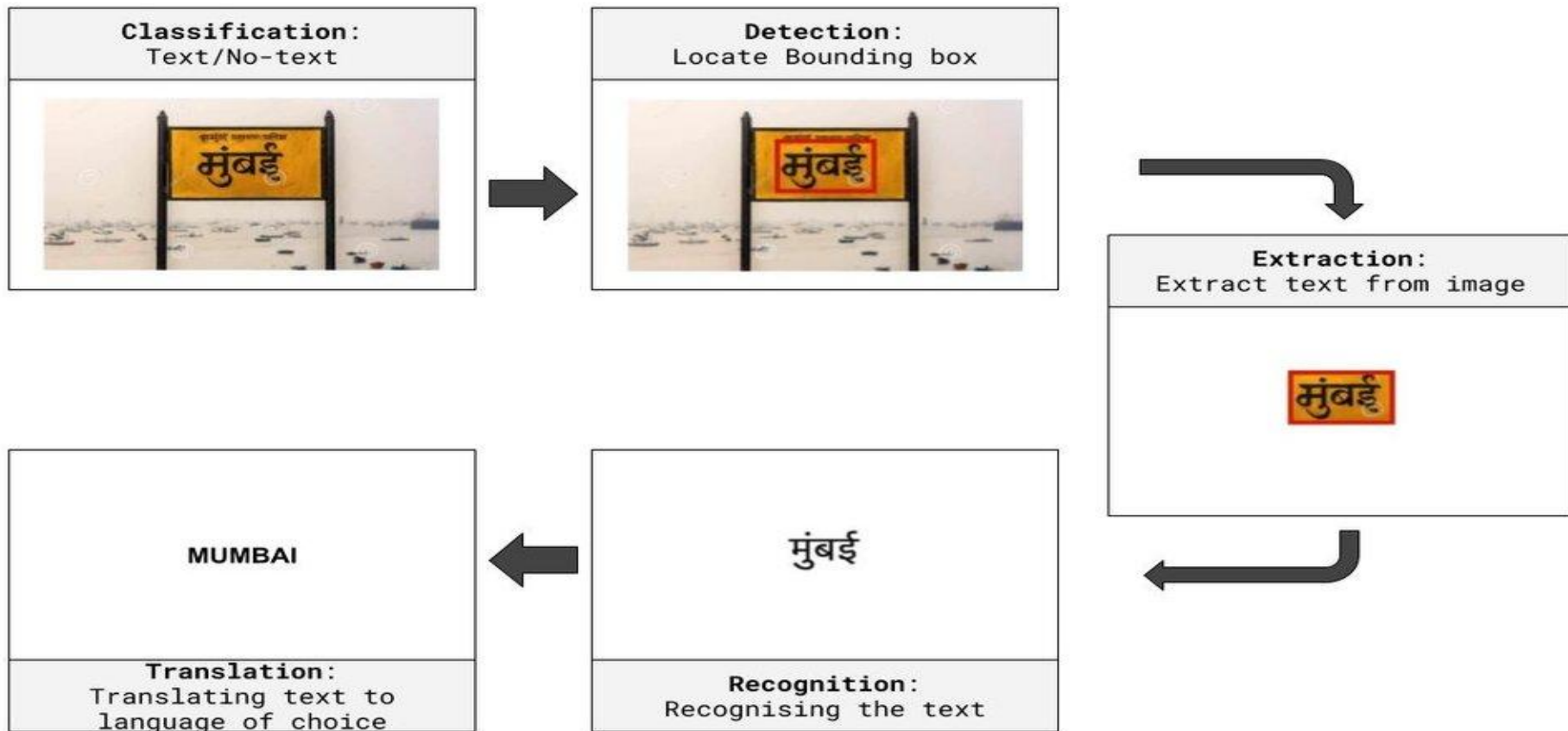


Modules

Natural Language Processing for translation/transliteration



Final integration





Thank You