

Initial Bsc Presentation

Identification of handwritten and printed text: A study on HMM, SVM and CNN based methods

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Nicolas Dutly

My education

- Third year Bsc student
- Major : Computer Science (120 ETCS)
- Minor : Mathematics (60 ECTS)

Interests

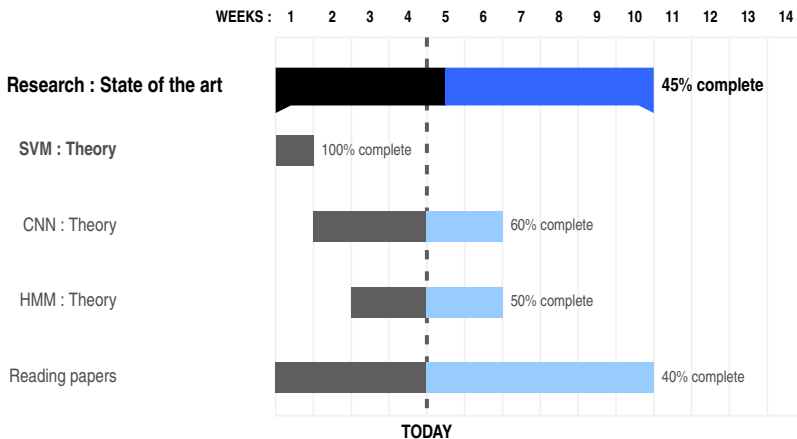
- Machine Learning
- Statistics
- Linear algebra
- General topology



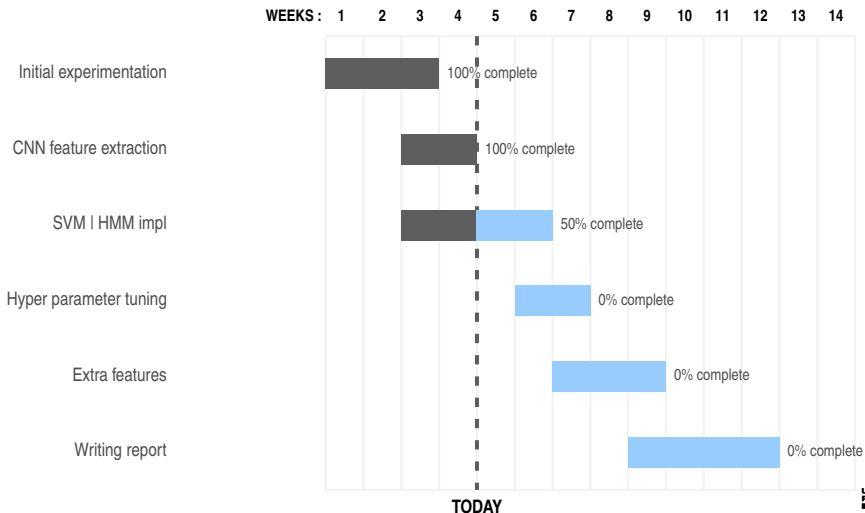
Applications

- Different OCR techniques for printed and handwritten text
- Extraction of handwritten elements in forms
- Removal of unwanted handwritten annotations

Timeline



Practical Work



Preprocessing

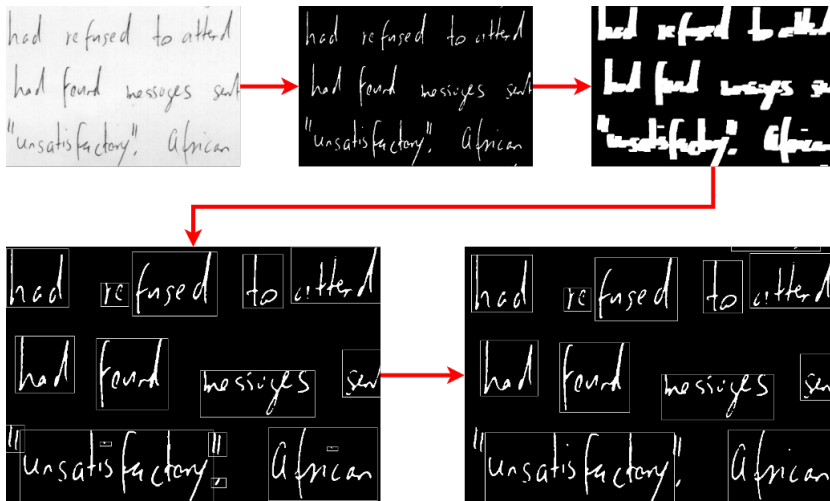


FIGURE – Word level segmentation

CNN binary classification

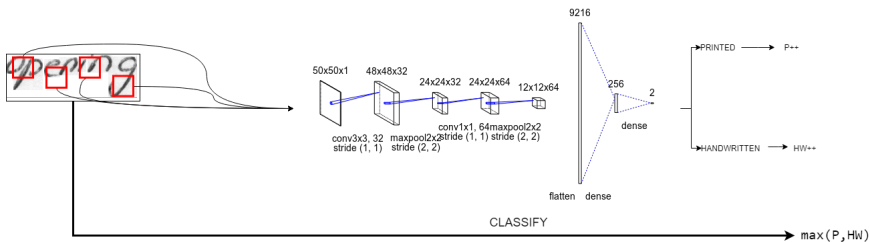


FIGURE – Binary vote style classification

Experimentation result

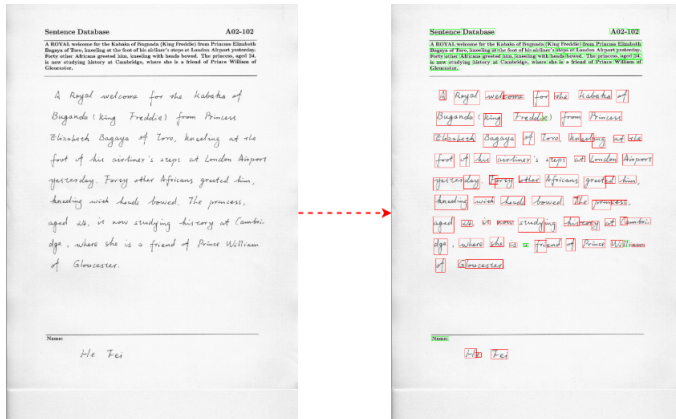


FIGURE – Test classification