COMP537 IUI
Term Project Proposal
Mid-Presentation

Volkan Cirik

Personal Font & Signature Generator

Idea:

1 User gives a handwritten text
2 The system learns the style of the author
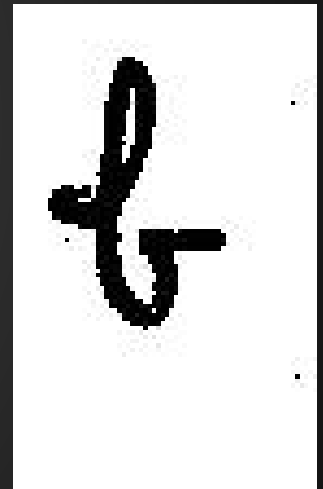3 The system can generate text with author's style
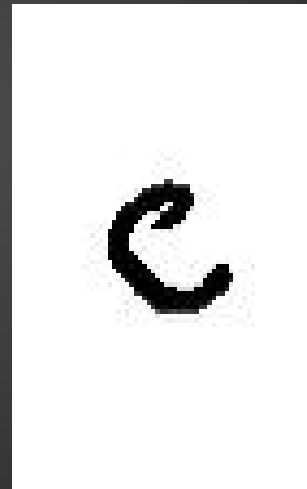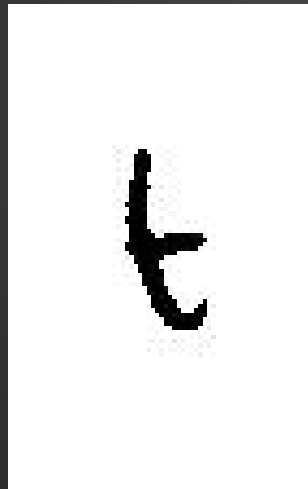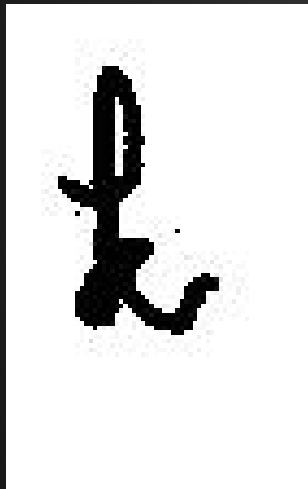
What others have done?

- Handwriting Recognition systems
  - HMM based
  - Recurrent Neural Network\

How about handwriting generation?

- I will use a generative probabilistic model Restricted Boltzmann Machines

- Very similar to Neural Networks|

- Why? wanted to learn for my research

So any demos?

Not yet :(but here is a screenshots of generated characters of a trained RBM, these are its 'idea' of characters 'k', 't', 'c', 'b'

Next Steps?

- Downloaded 10gb of data from IAM Handwriting Database
● 657 writers contributed samples of their handwriting
● 115'320 isolated and labeled words

But...

- I have to decompose words into characters