Handwriting Identification Using Neural Networks

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Motivation

- More research on recognition
- Identification useful for forensics
- Nationality study

Proposal

- ResNET CNN Using Keras
- IAM Database
- Text Patches

Progress

- 13,376 Individual randomly generated images from IAM database
  - 74 unique authors
  - 154 images in train set, 38 images in test set for each author
  - We normed the data to a 113x113 pixel window and put it into greyscale
- We implemented a ResNET using Keras with a TensorFlow backend
- We have so far achieved a 27% accuracy on the data