CSP 502
Computer Vision Project

Signature Detection and Verification

Group 6:
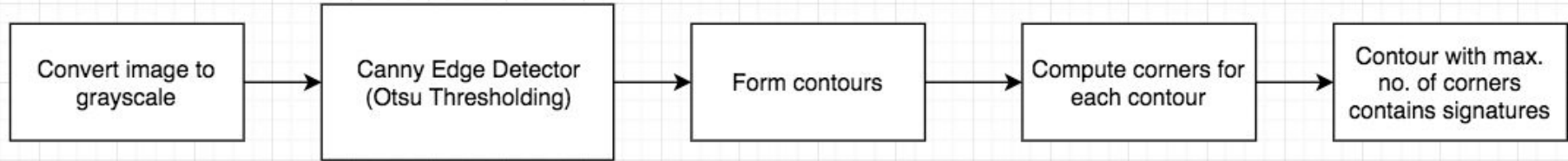
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Approach - 1: Using edge detection, contours and corners [3]

Assumptions:

- Cursive handwriting not used except in signature.
- Signature is connected completely.

[3] https://github.com/vzat/signature_extractor

Result

Failure scenario

Approach - 2: Using OCR to extract handwriting [4]
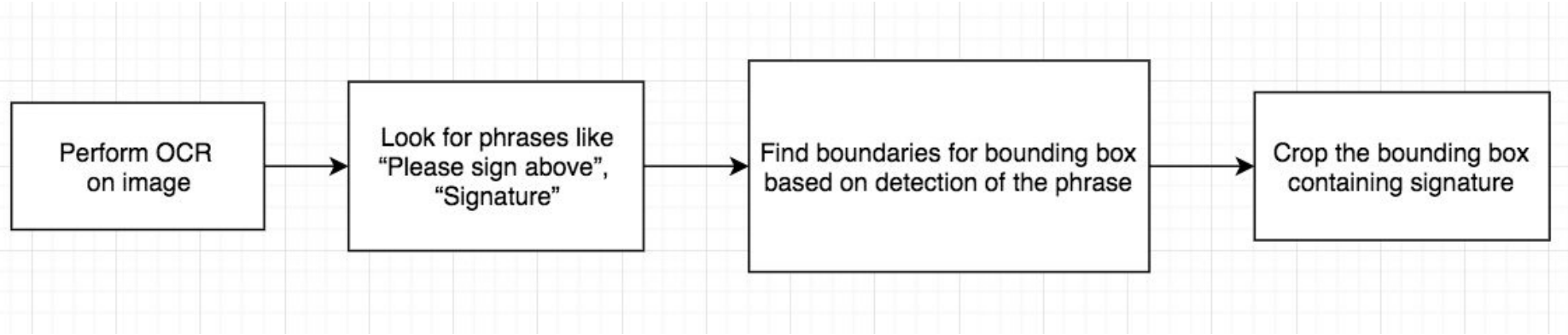
Assumptions:

- Documents / Cheques contain phrases such as "Please sign above", "Signature", etc.

[4] Google Tesseract - https://opensource.google.com/projects/tesseract

Results [5]

[5] IDRBT Cheque Image Dataset - http://www.idrbt.ac.in/icid.html

Cropped signatures
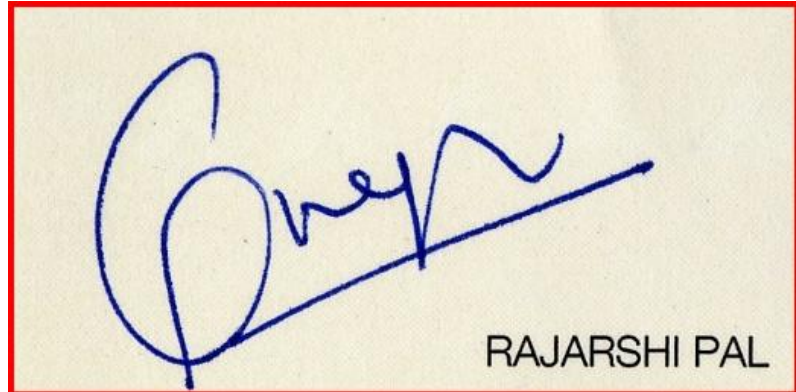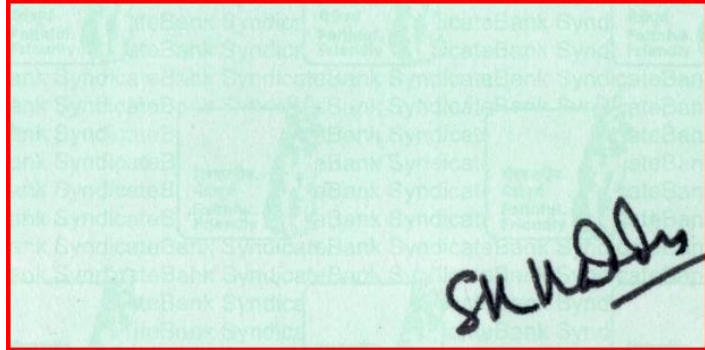
Future work

- Signature verification using SIFT and contour features [6]
  - Aspect ratio
  - Bounding rectangle area
  - Convex Hull area
  - Contour area
- Classification using SVM

[6] Vadiraja K - http://www.vadiraja-k.com/blog

THANK YOU