SIGNATURE RECOGNITION SYSTEM

(USING CORRELATION TECHNIQUES)

GROUP-22

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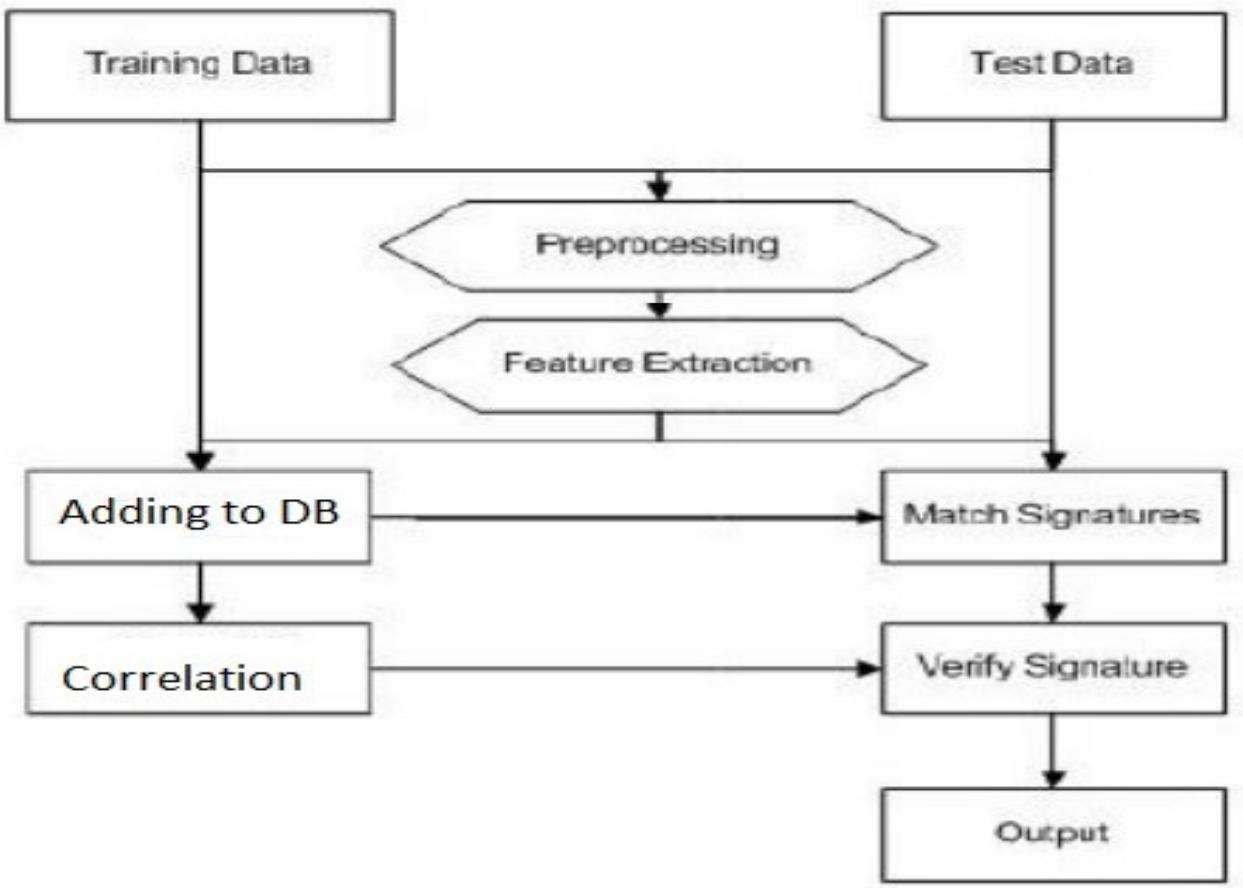
INTRODUCTION

- Signature has been a distinguishing feature for person identification.
- Even today, an increasing number of transactions, especially related to financial and business are being authorized via signatures.
- Hence, the need to have methods of automatic signature verification must be developed if authenticity is to be verified and guaranteed successfully on a regular basis.

BLOCK DIAGRAM



PROCESS

- Signature to be tested is taken as input.
- This input image is converted to black and white image and is thinned.
- Black pixels are extracted from that image.
- The signature's angle with assumed base line found through the Eigen vector .
- Signature is rotated through the found angle and is adjusted to the origin.
- A boundary box is drawn around the signature in the form of rectangle.

- The mean of the correlation coefficients of the resultant signature and the dataset of particular person is calculated and maximum is returned.
- This value is compared with predefined threshold value to find the whether the input signature is matched with the dataset or not.
- If so, the name of the person and the corelation value is returned.

EXAMPLE

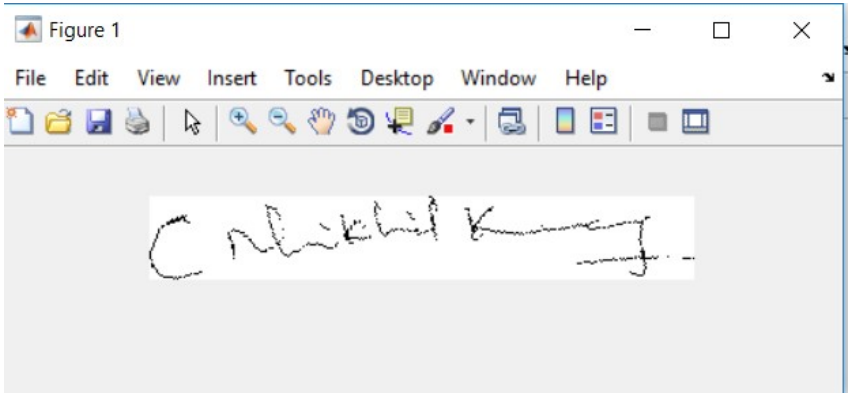
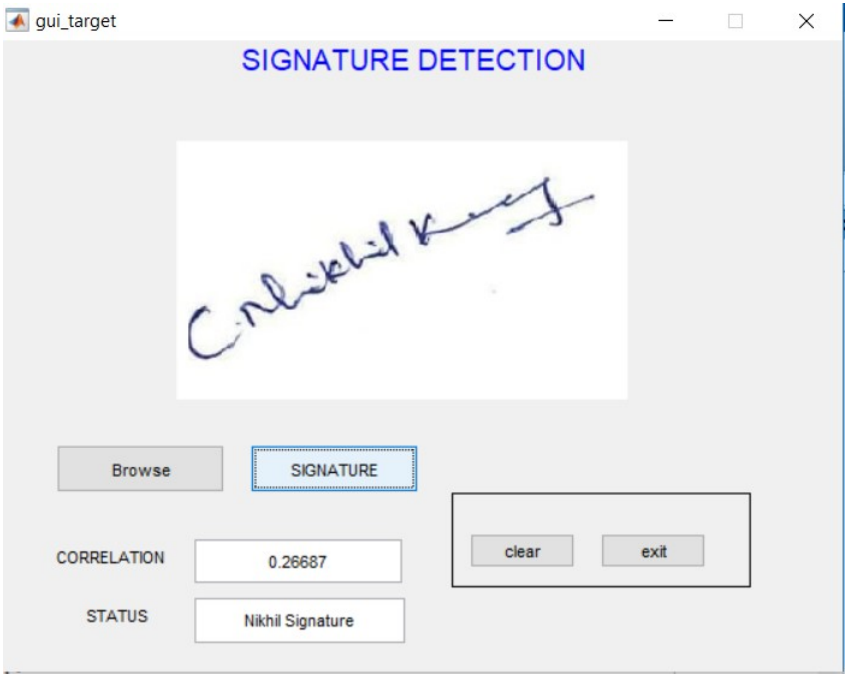


Figure 1
File Edit View Insert Tools Desktop Window Help


gui_target
SIGNATURE DETECTION
Browse
SIGNATURE
clear
exit
CORRELATION
0.26687
STATUS
Nikhil Signature

APPLICATIONS

- Identify Theft
- Bank Applications

THANK YOU