Handwritten Signature Verification using Local Binary Pattern & KNN

A Project Report

Submitted by

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Under The Guidance Of

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Mukesh Patel School of Technology Management & Engineering,
Mumbai

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This is to certify that the project synopsis entitled “Handwritten Signature Verification using Local Binary Pattern & KNN” is the proposed work by Tejas Jadhav of M. Tech. (Computer Engineering), MPSTME (NMIMS), Mumbai, during the III/IV semester of the academic year 2018 - 2019 is verified by me.

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ABSTRACT

Whether one signs a petition, work documents, contract, or wants to approve payment of a check, he/she uses personal signature to do all those things. An offline signature verification method has been described in this designed project and the subsequent project report. Handwritten signature has been critical person identification technique for decades. The objective of this project report is to give away an efficient biometric signature recognition and verification techniques The study intends to give away information all about the application of biometrics i.e. signature detection and also about the various stages that are necessary to be studied by a designer while creating an application that will use it. The system works in different stages which includes pre-processing, LBP image conversion, feature extraction, and classification. A total of 40 different signature recognition approaches were read and studied before designing the system here that are been taken from different research papers. The output obtained is evaluated in the papers itself by performing experimental analysis and can be compared with another existing system in this synopsis as well.