



## Senior Design Project

# Bangla Handwriting Recognition

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**Fall, 2019**

# DECLARATION

This is to declare that no part of this report or the project has been previously submitted elsewhere for the fulfillment of any other degree or program. Proper acknowledgement has been provided for any material that has been taken from previously published sources in the bibliography section of this report.

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# APPROVAL

The Senior Design Project entitled “Bangla Handwriting Recognition” by Sakib Mahmud (ID: 1620802042), Arindam Kabir Ahmed (ID: 1612010042) and Sidratul Muntaha (ID: 1611756642) has been accepted as satisfactory and approved for partial fulfillment of the requirement of BS in CSE degree program on October, 2020.

Signature

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Finally, we would like to thank our families and everybody who supported us and provided with guidance for the completion of this project.

# ABSTRACT

This report presents the design and implementation of a Bangla Handwritten OCR. This project is going to be useful for both the government and the general people. The software can be used to easily convert a handwritten Bangla document to editable text, i.e, we are going to digitize the handwritten text. We are going to take an input image of the handwritten text. The image is then preprocessed in various steps and then sent to the model. After that, the output is shown. The principal idea is to convert images of text documents such as those obtained from scanning a document into editable text.