

Handwritten Digit Recognition Using Convolutional Neural Network

A REPORT

*Submitted in partial fulfillment of the requirements for
the award of degree of*

BACHELOR OF ENGINEERING
In
COMPUTER ENGINEERING

By

**NIVEA DABRE
VALENCIA DIAS**

Under the guidance of

Mrs. Kalpana Deorulkar
Assistant Professor
Computer Department



**DEPARTMENT OF COMPUTER ENGINEERING
FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
FR. AGNEL ASHRAM, BANDRA (W),
MUMBAI - 400 050.**

**UNIVERSITY OF MUMBAI
(2017 – 2018)**

**FR. CONCEICAO RODRIGUES COLLEGE OF
ENGINEERING
FR. AGNEL ASHRAM, BANDRA (W),
MUMBAI - 400 050.**



CERTIFICATE

*This is to certify that the following students working on the project "**Handwritten Digit Recognition using Convolutional Neural Network**" have satisfactorily completed the requirements of the project in partial fulfillment of the course B.E in Computer Engineering of the University of Mumbai during academic year 2017-2018 under the guidance of "**Mrs. Kalpana Deorulkar**".*

*Submitted By: Nivea Dabre(7364)
Valencia Dias(7368)*

Guide

Head of the Department

Principal

CERTIFICATE

This is to certify that the project synopsis entitled “Handwritten Digit Recognition using Convolutional Neural Network” submitted by the following students is found to be satisfactory and is approved as a partial fulfillment of the requirement for the degree of Bachelor of Engineering in Computer Engineering.

Nivea Dabre
Valencia Dias

Internal Examiner

External Examiner

(Signature)

(Signature)

Name:

Name:

Date:

Date:

Seal of the Institute

DECLARATION OF THE STUDENT

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources.

We also declare that we have adhered to all principles of academic honesty and integrity and have not Mis-represented or fabricated or falsified any idea / data / fact / source in my submission.

We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Signature of the student

Date:

(Nivea Dabre)
(7364)

Signature of the student

Date:

(Valencia Dias)
(7368)

ACKNOWLEDGEMENT