

# G.Narayanamma Institute of Technology & Science

(For women)

(Approved by AICTE, Affiliated to JNTU-H, Accredited by NBA & NAAC)

(An ISO 9001:2015 Certified Institution)

Shaikpet, Hyderabad-500 104

Department of Computer Science & Engineering



**TITLE : HAND WRITTEN DIGIT RECOGNIZER**

**DEPARTMENT : CSE**

**SECTION : B**

**BATCH NUMBER : 5**

## **TEAM MEMBERS**

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## ABSTRACT

Hand written digit recognizer is one of the practically important issues in pattern recognition applications. The application of digit recognition includes in postal mail sorting data entry etc. Digit Recognizer is a web app which runs on browser. It predicts the hand written digits given by user.

Digit Recognizer is build using Deep Learning Techniques. The model is trained using MNIST Dataset from keras which has thousand of hand written digits in it. It has 10 classes i.e from 0 to 9. It Takes grayscale image as input and converts it into small pixels and then predicts the output. Web App is created using Streamlit library.

## System Requirements

Software Requirements:

Platform - Google collab

Front End - Web App

Development Tool - Python

Back End - Machine Learning(neural network)

Hardware Requirements:

Processor - AMD Athlon IIX2 270 Processor

Hard disk capacity - 58.4GB

RAM Capacity - 4.00GGB