Digit Recognition

Introduction

Digit Recognition is a machine learning project aimed at recognizing hand-written digits using convolutional neural networks (CNNs). This project focuses on building a robust model that can accurately classify digits ranging from 0 to 9.

Dataset

The dataset used for this project contains pixel data of hand-written digits, along with their corresponding labels. The dataset is split into a training set and a test set, allowing for model training and evaluation.

Features

- Preprocessing of pixel data to prepare it for model training.
- Implementation of a CNN model architecture for feature extraction.
- Training the model using the training dataset.
- Evaluating the model's performance on the test dataset.
- Prediction of labels for unseen digit images.

Dependencies

- pandas
- cv2
- numpy
- scikit-learn
- TensorFlow

Acknowledgments

- The dataset used in this project is sourced from source.
- Please add file path according to you directory