DIVYA DHARSHINI.M

Final Project

PROJECT TITLE

CHARACTER RECOGNITION

AGENDA

1. PROBLEM STATEMENT
2. PROJECT OVERVIEW
3. WHO ARE THE END USERS
4. SOLUTION AND ITS VAKUE PROPOSITION
5. THE WOW IN THE SOLUTION
6. MODELLING
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PROBLEM STATEMENT

- **Character recognition involves developing a system to accurately identify characters in digital images.**
- **This entails gathering diverse labeled datasets, preprocessing images, designing and training machine learning or deep learning models, evaluating performance metrics.**
- **And also deploying the model for real-world applications such as OCR and handwriting recognition.**

PROJECT OVERVIEW

- **The character recognition project aims to develop a robust system capable of accurately identifying characters within digital images.**
- **It involves data collection, preprocessing, model development using machine learning or deep learning techniques, evaluation of model performance.**
- **And also deployment for real-world applications such as optical character recognition (OCR) and handwriting recognition.**

WHO ARE THE END USERS?

- Banking sector
- Postal Services
- Education Sector
- Retail Industry
- Document Management

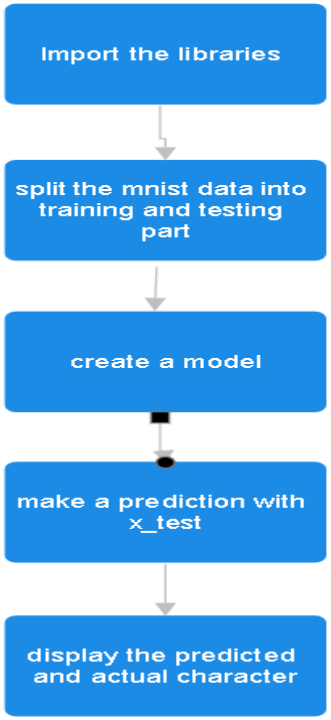
SOLUTION AND ITS VALUE PROPOSITION

- The character recognition solution employs deep learning with CNNs to accurately identify characters in digital images, offering high accuracy and efficiency.
- It enables automation of manual tasks, caters to diverse applications, assists visually impaired individuals, and enhances workflow productivity in industries such as banking, postal services, and retail.

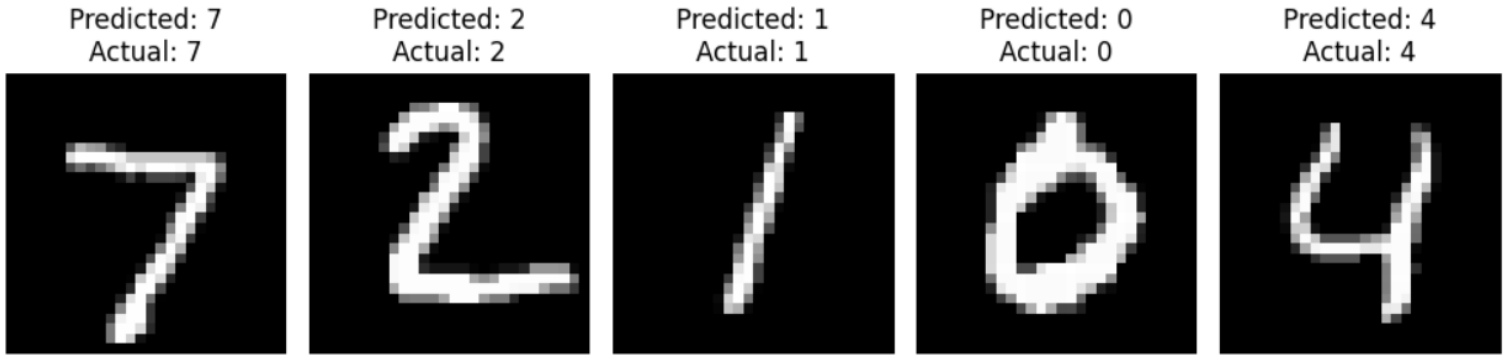
THE WOW IN YOUR SOLUTION

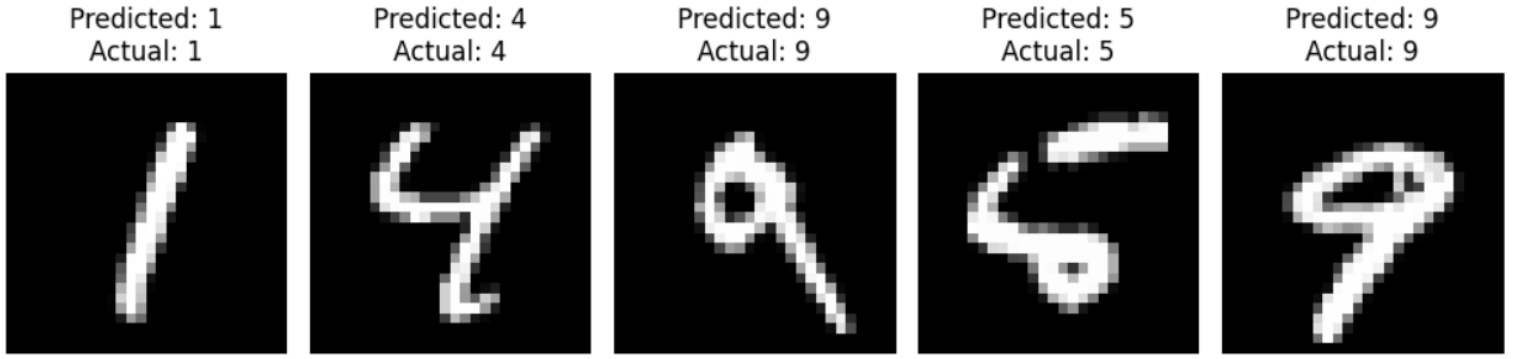
- The model is more efficient.
- The model is more optimizable.
- It is time consuming.
- It provides result more accurate.

MODELLING


Import the libraries
split the mnist data into training and testing part
create a model
make a prediction with x_test
display the predicted and actual character

RESULTS





[Demo Link]