

HANDWRITTEN DIGIT RECOGNITION

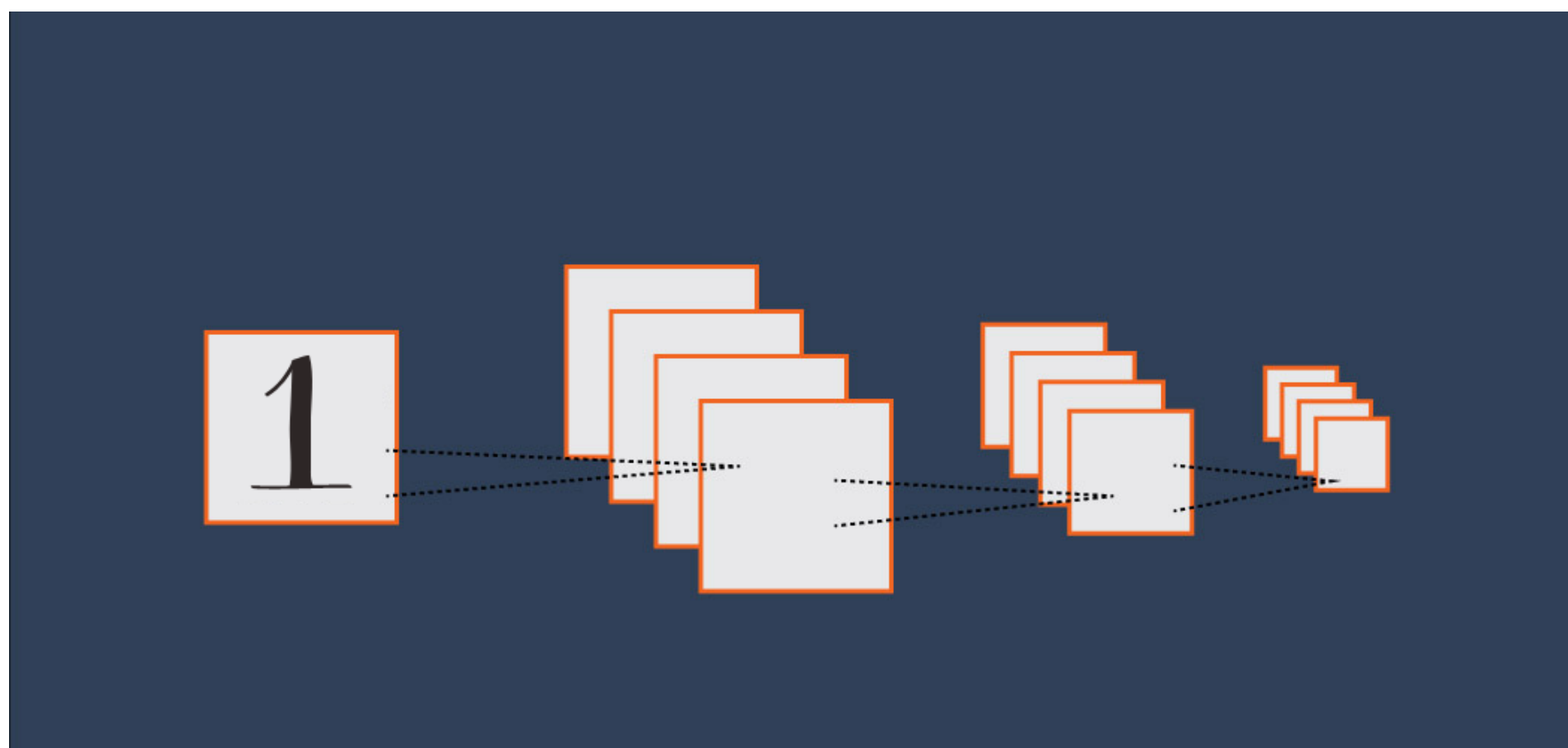
USING DEEP LEARNING

PROJECT BY

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OBJECTIVE

- Promote AI Advancements: Showcasing the power of deep learning and its application to image recognition and classification.*
- User-Friendly Interface: Create a web application that offers a seamless and intuitive user experience.*
- Digit Classification: Build a deep learning model capable of accurately identifying and classifying handwritten digits ranging from 0 to 9.*



MOTIVATION

- Developing a highly accurate digit classification model to improve efficiency and reduce errors.*
- Promoting transparency by providing insights into the model's decision-making process and visualizing features.*

REQUIREMENTS

- Dataset: MNIST(Modified National Institute of Standards and Technology)*
- Deep Learning Framework: PyTorch, TensorFlow, Keras.*
- Model Architecture: CNN(Convolutional Neural Network)*
- User Interface (UI)*

APPLICATIONS

Postal Services:
Handwritten zip codes or addresses on envelopes can be accurately recognized and classified.

Banking and Finance:
Cheques or handwritten forms can be automatically processed, reducing errors and saving time for banks and financial institutions.

Document Digitization:
Handwritten documents, such as historical manuscripts or medical records, can be digitized and indexed accurately, facilitating data retrieval and analysis.

