

Use Cases for Handwritten Digit Classification

Problem:

Manual check and deposit slip processing in banking is slow, error-prone, and inefficient, leading to potential fraud and increased operational costs.

NAME <u>Jane Doe</u>	CASH	100	00
DATE <u>01/01/2025</u>	CHECK	150	50
ADDRESS <u>123 Main St., USA</u>		75	00
ACCOUNT NUMBER <u>123456789</u>			
<u>Jane Doe</u> Signature	SUBTOTAL	325	50
	LESS CASH	40	00
	NET DEPOSIT	285	50

Solution:

Utilizing machine learning algorithms to recognize handwritten digits on checks and deposit slips, automating verification, and reducing manual processing time.

Real-World Application:

This approach is implemented in mobile banking apps (e.g., Chase, Wells Fargo, Google Pay) to enable mobile check deposits, where users take pictures of checks, and ML models extract handwritten details for verification and fraud detection.



Source: callawaybank

Details

Front of Check

Back of Check

Deposit To

Available Balance

Personal Checking - 1346

\$952.13

Amount \$

\$300.00

Secure Area

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Source: androidauthority