PROJECT TITLE



AGENDA

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- 4. Your solution and its value
- **Proposition**
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PROBLEM STATEMENT

Develop an AI system to authenticate handwritten digital signatures, ensuring accuracy, robustness, and efficiency for secure digital transactions.



PROJECT OVERVIEW

This project aims to develop an Al-based system for authenticating handwritten digital signatures, leveraging machine learning techniques to ensure secure and reliable verification in digital transactions and document authentication. The system will involve data collection, preprocessing, feature extraction, model training, and deployment phases to achieve high accuracy and efficiency in signature verification.

WHO ARE THE END USERS?

1.Financial institutions: Banks, insurance companies, and other financial organizations often use digital signature detection for verifying signatures on documents such as loan agreements, contracts, and financial transactions.

2.Legal firms: Law firms and legal departments within companies may use digital signature detection for verifying signatures on legal documents, contracts, and agreements.

3.Government agencies: Government organizations may utilize digital signature detection for authenticating signatures on various official documents, including permits, licenses, and legal forms.

YOUR SOLUTION AND ITS VALUE PROPOSITION



Value Proposition:

1. Legality and Compliance: Handwritten digital signatures often comply with legal requirements for electronic signatures, making them legally binding in many jurisdictions 2. Cost and Time Savings: By reducing the need for printing, mailing, and storing physical documents, handwritten digital signatures can save businesses time and money. Solution:

Mobile Apps: Develop a mobile application that allows users to capture their handwritten signature using their smartphone or tablet touchscreens. The app should provide tools for users to customize their signatures and ensure clarity and consistency.

THE WOW IN YOUR SOLUTION



2.Handwriting Recognition AI: Implement advanced artificial intelligence (AI) algorithms for handwriting recognition that can accurately interpret and convert handwritten signatures into digital format. This AI-driven solution ensures high accuracy and reduces the need for manual adjustments or corrections.



MODELLING

1. Signature Verification:

Verify the authenticity of the captured signature to prevent fraud or unauthorized access.

2.Document Integration:

Integrate the signature functionality seamlessly into document management systems.

3.Encryption and Security:

Ensure that the digital signatures are encrypted and secure to protect against unauthorized access or tampering.

4. Compliance and Legal Support:

Ensure that the signature solution complies with relevant electronic signature regulations and standards.

RESULTS

However, if the original image contained artifacts such as shadows or other markings on

the paper, then cropping them out can be helpful prior to creating the alpha mask.

Removing excess whitespace around the signature also makes it more convenient to work

with and transform once brought into a PDF editor.



