



# GENAI RUSH <BUILD/>ATHON

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## Team Name : AI Allies

### Problem Statement :

Create an AI-driven Video KYC solution for secure, efficient, and automated identity verification in financial and service industries. The solution should extract and validate customer information from documents, employ facial recognition for biometric verification, and enhance productivity while reducing identity fraud risks.

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## Brief about the Idea:

The proposed AI-driven video KYC (Know Your Customer) solution revolutionizes identity verification by leveraging computer vision-based KYC to automate and streamline the traditional manual KYC process. The solution improves accuracy and speed, reduces the risk of identity fraud, and provides a seamless, secure, and efficient video KYC verification process through advanced facial recognition and AI-powered natural language processing. Also accommodate variations in appearance that may not be easily identified by humans. Effectively combating potential threats such as identity theft and fraud makes this solution a powerful tool for improving security across industries.

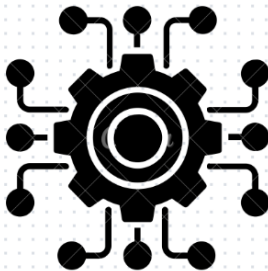
## Opportunity :

- The proposed AI-powered Video KYC solution differs from other existing ideas like Video KYC with an agent or offline KYC through form filling in its comprehensive automation, speed, accuracy, fraud mitigation, versatility, and seamless user experience. It streamlines the entire KYC process with computer vision and AI algorithms, providing faster, more accurate, and user-friendly identity verification across diverse industries.
- AI will automate the entire Video KYC process, utilizing advanced computer vision and machine learning algorithms for document recognition, facial verification, enabling efficient and accurate identity verification without human involvement.

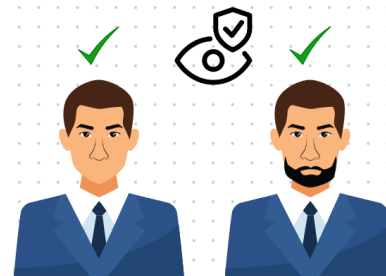
## List of features offered by the solution :



Face verification &  
Document recognition



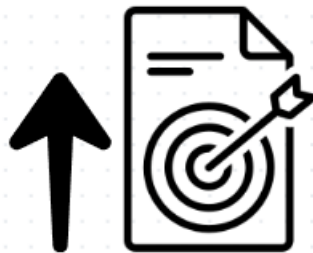
Comprehensive  
Automation (E2E)



Adaptability to facial  
changes (e.g. Aging)



Speed & Efficiency

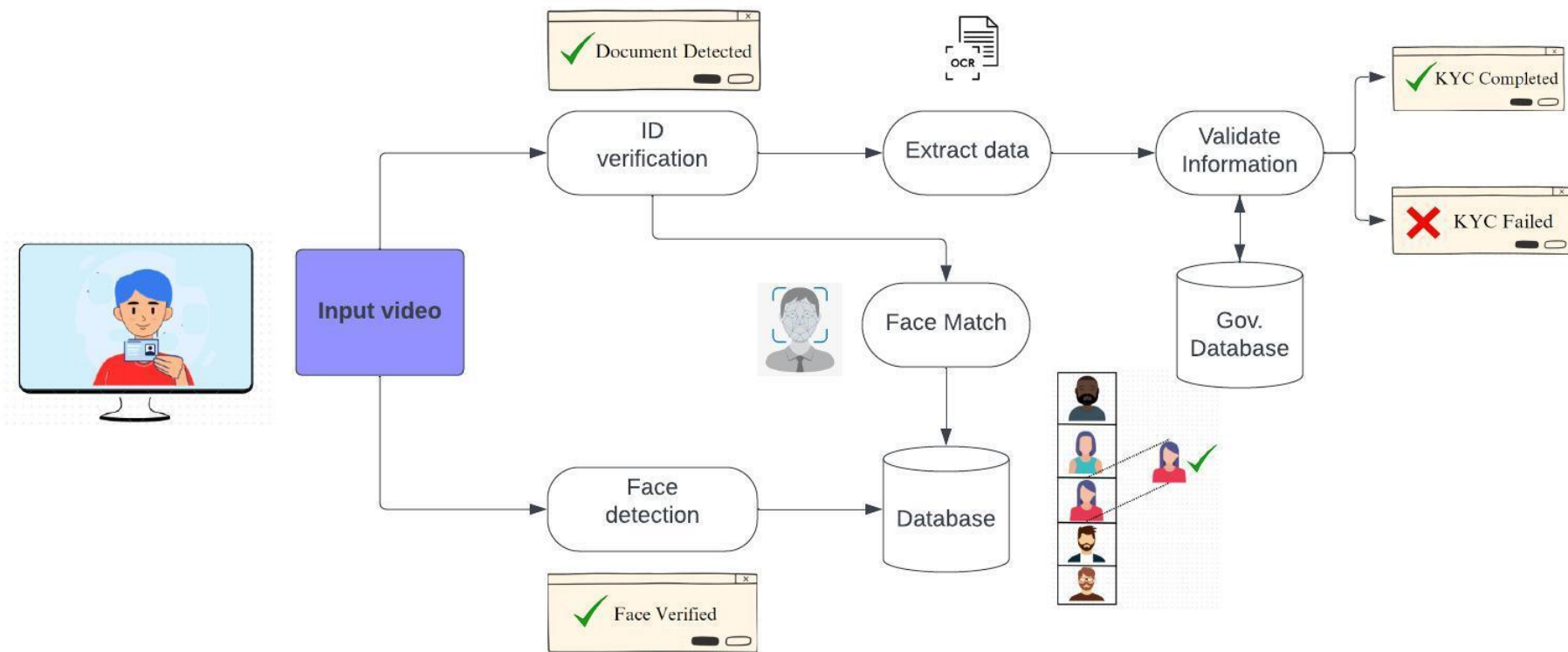


Enhanced Accuracy



Security

## Process Flow Diagram/Usecase Diagram:



## Business Logic of the solution :

- **Reporting and Logs:** Create a comprehensive reporting system to track and log each video KYC transaction, including timestamps, processing outcomes, and any issues encountered.
- **Data Security and Compliance:** Ensure that all user data, including videos and extracted information, are securely stored and processed in compliance with data protection regulations. Regularly audit and monitor the system to maintain security standards.
- **Error Handling and User Feedback:** Implement error handling mechanisms to provide meaningful feedback to users if their video fails the verification process. Offer guidance on how to improve video quality or compliance with the requirements.
- **Identity Validation:** Cross-check the extracted information from the user's photo ID with the information provided during registration to ensure consistency. Perform additional checks, such as matching the user's name with a watchlist or sanctions list.

## Technology used :



S3



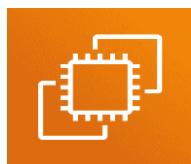
Lambda



Textract



Rekognition



EC2



Python

## Technology used :

- **Python:** Programming language.
- **TensorFlow & Keras :** Machine learning and deep learning libraries.
- **AWS:**
  - EC2: Compute (CPU, GPU)
  - S3: Storage
  - Rekognition: Computer Vision
  - Textract: OCR
  - Lambda: Serverless computing



## Estimated cost of/after implementing the solution :

- **AWS Lambda:** Price per Request: \$0.20 per 1 million requests. Compute Time: \$0.00001667 per GB-second.
- **Amazon Rekognition:** Price per Image: For image analysis, it can be around \$0.001 per image. Price per minute: For video analysis, it can be around \$0.12 per minute of video.
- **Amazon S3:** Storage: \$0.023 per GB per month for the first 50 TB.
- **Texttract cost:** Ranges from \$1.50 to \$5.00 per 1,000 pages, depending on the type and volume of analysis.
- **Operating Cost per month :** ₹ 2000 to ₹ 5000.

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# THANK YOU

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