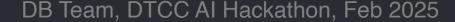
# KYC Agent: Leveraging Al for Enhanced Efficiency and Security

The financial industry is increasingly reliant on Know Your Customer (KYC) processes to mitigate risk and comply with regulations. However, traditional KYC methods are often manual, time-consuming, and prone to errors especially for rapidly changing regulatory requirements and compliance standards. We propose an innovative AI-powered KYC agent that streamlines KYC processes, makes it cost-efficient, and always stays up to date with regulatory requirements.





## Team



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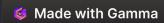
**Alessio Sordo** 

ML Engineer



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Data Scientist



## Problem statement

KYC is very expensive and low-efficient

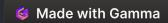
Current KYC processes are mostly manual (30-60%), slow and expensive, making client onboarding inefficient.

Businesses struggle to stay compliant with evolving global regulations.

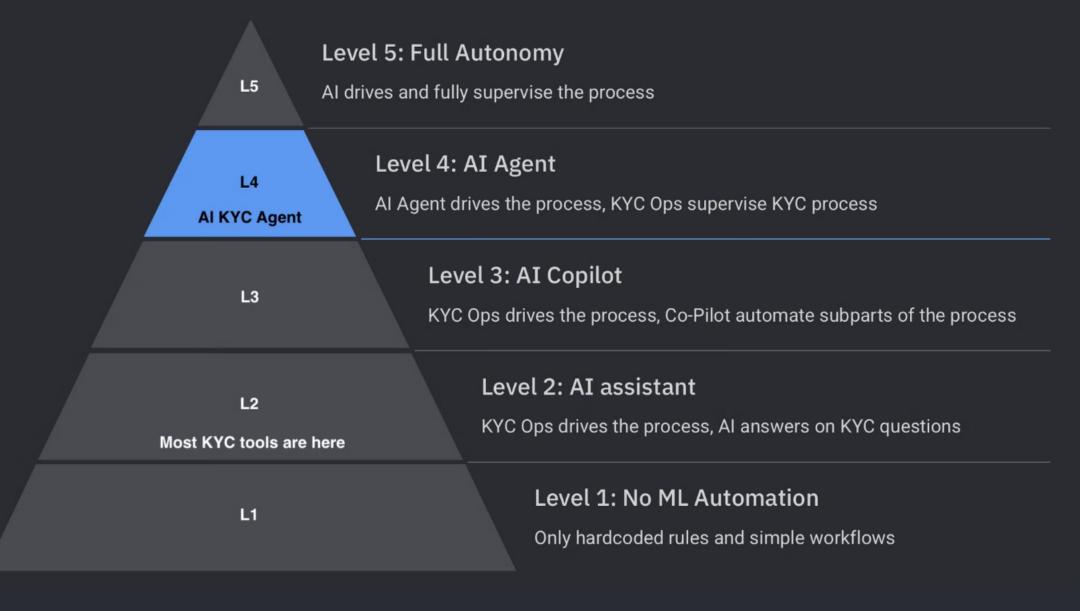
**Difficult verification steps** frustrate users and increase drop-off rates.

Existing solutions fail to detect sophisticated fraud, such as deepfakes and synthetic identities.

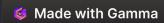
There is a need for an **Al-driven KYC solution** that is **fast**, **secure**, **cost-effective**, **and user-friendly**.



## Al KYC Agent: high level of autonomy

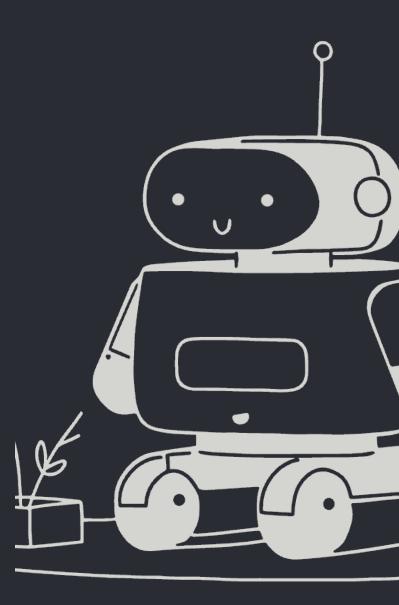


KYC Al Agent targets to achieve Level 4 autonomy, demonstrating high automation capabilities. It will handle complex KYC processes with minimal human intervention, significantly enhancing efficiency and accuracy.



# Key features

- Perform E2E KYC for a client
  - Request information from a client
  - Extract information from client messages and documents
  - Perform risk assessment
  - Provide summarisation of the client risk and risk matrix
  - Support 4-eyes review
  - Escalate risk to AFC
- Upload policy to change the process and reasses risks for all clients affected by changed policy
- Transparency and explainability on every step, fully audit-friendly





## DEMO





john@example.com Compliance Logout

Search by KYC ID, Client Name, Policy, or Status...

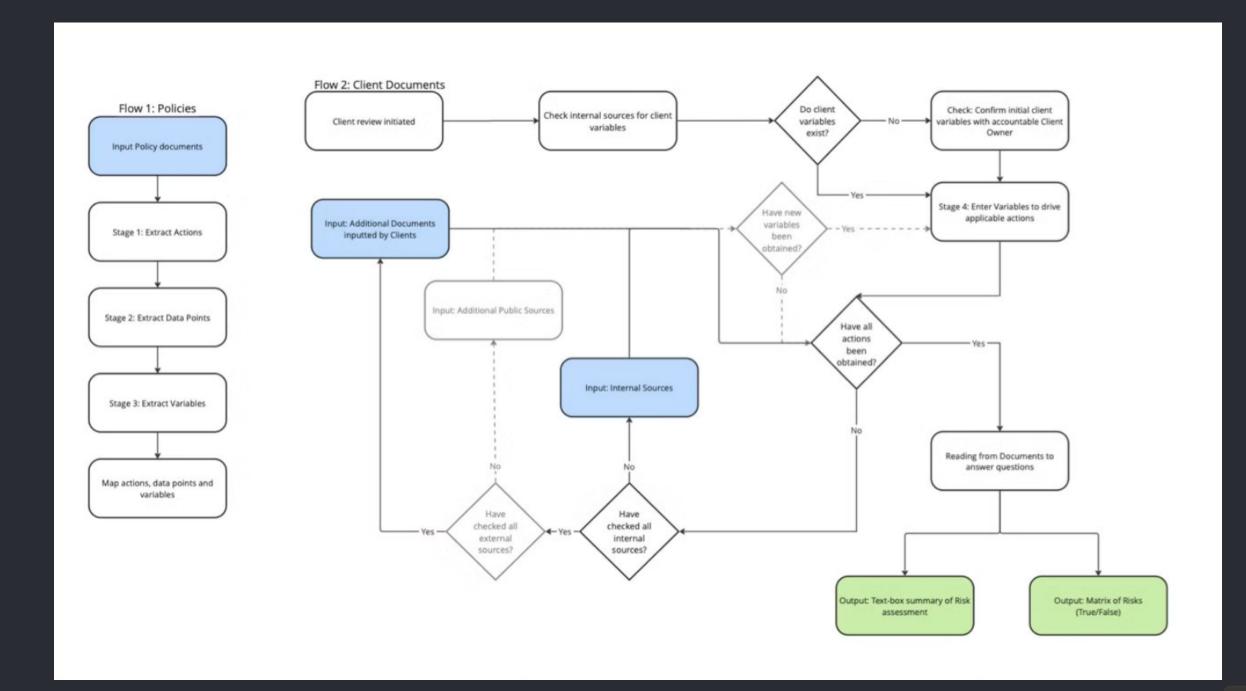
#### **KYC Requests**

KYC ID ↑	Client Name ↑	Policy ↑	Trigger Date ↑	Status
5	The Arsenal Football Club Ltd	JMLSG Part Two June 2020 (amended July 2022)	Thursday, February 6, 2025	COMPLETED
6	Brentford FC Limited	JMLSG Part One June 2020 (amended July 2022)	Thursday, February 6, 2025	IN PROGRESS
71	The Arsenal Football Club Ltd	JMLSG Part One June 2020 (amended July 2022)	Thursday, February 6, 2025	NOT STARTED
72	AFC Bournemouth Limited	JMLSG part1	Thursday, February 6, 2025	NOT STARTED
73	Brighton & Hove Albion FC Ltd	JMLSG part1	Thursday, February 6, 2025	NOT STARTED

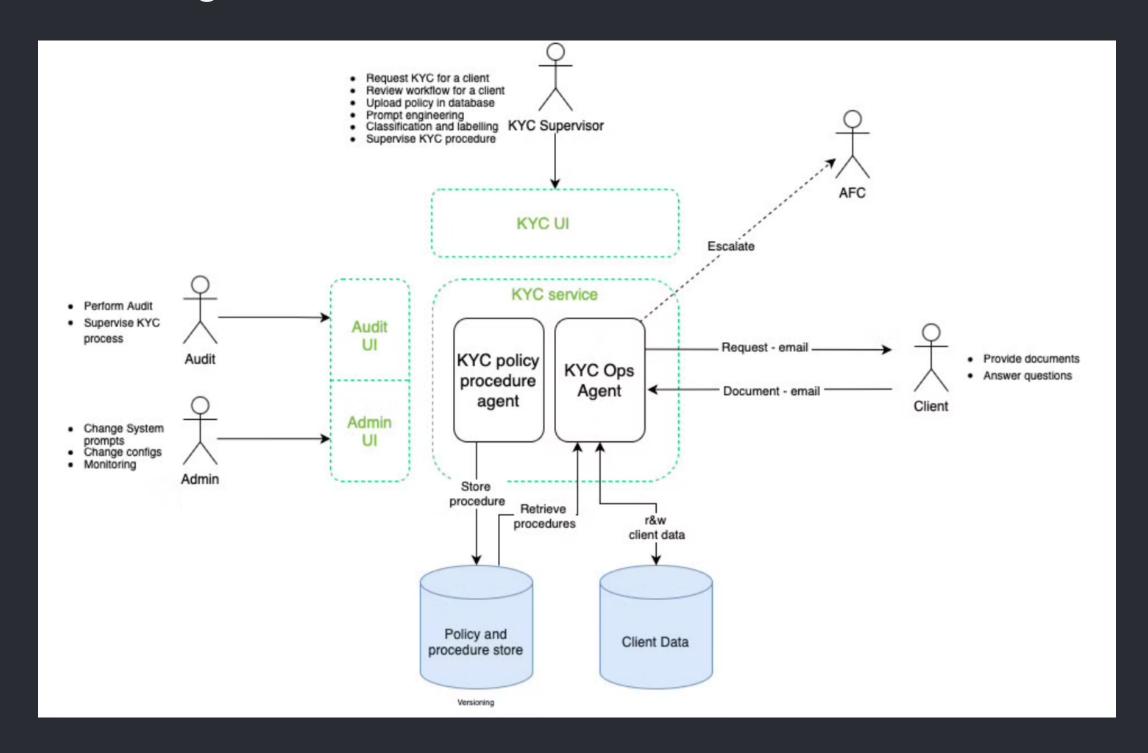
Trigger KYC Process →

Start KYC

## Workflow



## Architecture Diagram



## Tech stack



#### Python

Core language for AI model development and data processing.



#### Postgres SQL

Provides a robust and secure database for storing and managing KYC data.



#### Claude Sonnet 3.5

Fast, capable SOTA LLM model by Anthropic, optimized for reasoning, coding, and conversation.



#### React.JS

Used for building the user-friendly interface of our solution.



### Agent framework

Self written implementation of core Agent concepts.



#### **AWS Bedrock**

Cloud solution enables developers to build and scale generative AI apps using foundation models.



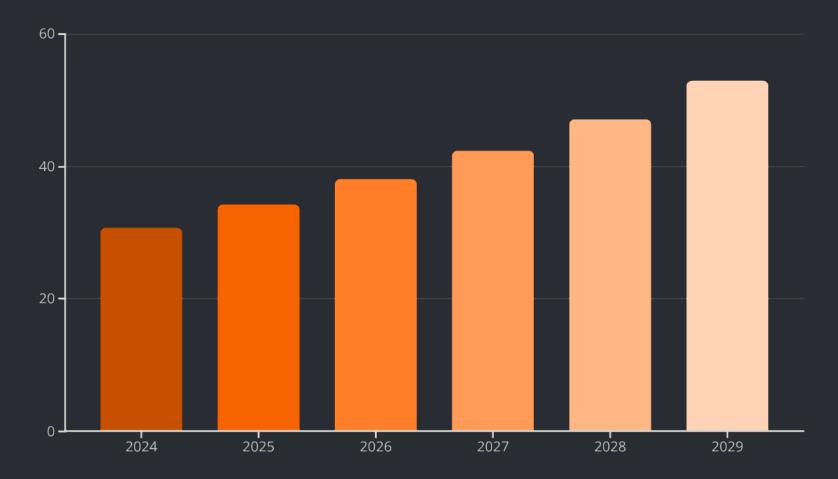
# **KYC** Market size

KYC market size, 2024 \$30.8bn

KYC market size, 2029 \$52.9bn

(estimated)

### **KYC Market size, \$Bn**







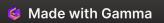
# Transforming the KYC Landscape

### **Industry Impact**

Al KYC Agent will drastically decrease costs for KYC processes, make it more robust, accurate and efficient. It will increase transparency for regulators and customers satisfaction.

### Collaboration

Our solution fosters collaboration between financial institutions and regulators by providing transparent and auditable KYC processes.



# Roadmap

MVP

Productionalize

Pilot

Scale

Finish current functionality, make it stable and easy to deploy

Evaluate quality of KYC checks

Implement supervisory and audit functionality

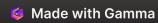
Examinate responsible Al practices and compliance (GDPR, EU Al Act, etc)

Enhanced functionality:
versioning of policies and
KYC procedures, interaction
with KYC process on every
step (human in the loop),
receiving of information from
external sources

Introduce AI KYC Agent for re-evaluation of risks scores for existed clients

Use AI KYC Agent for 1% of KYC requests

Apply for all KYC requests within organization



# Appendix 1. Links

GitHub repo: <a href="https://github.com/finos-labs/dtcch-2025-db">https://github.com/finos-labs/dtcch-2025-db</a>

Application: <a href="https://dtcch-2025-db.sibnick.men">https://dtcch-2025-db.sibnick.men</a>

Get started guide: link

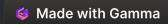
Documentation: <a href="link">link</a>

### GitHub repo



### **Application**





# Appendix 2. Want to use, invest or contribute?

**Contact Maxim Romanovsky via LinkedIn or email** 

LinkedIn



**Email** 



