

# **COA** Document processing

#### What is it?

COA is a document that verifies a product's quality and composition based on laboratory testing. It confirms that the product meets specific quality standards and often includes details about its purity, chemical composition, and safety.

## Challenges

- Manual collection of COAs from various sources (email, FTP, scanned documents)
- Time-consuming data extraction from unstructured PDFs and scanned images
- Error-prone transcription of critical test results and specifications
- Delayed quality decisions due to bottlenecks in data validation
- Lack of integration with enterprise systems (ERP, QMS, analytics platforms)

## ncorrect processing may lead to

product recall

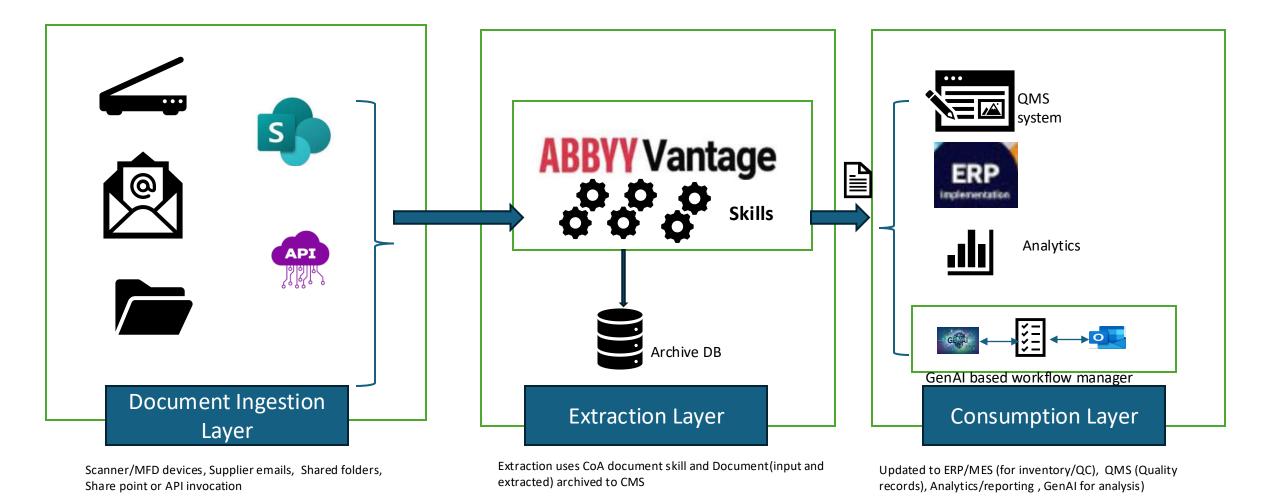
reputation/ brand damage

penalties and regulatory actions





# Solution Approach

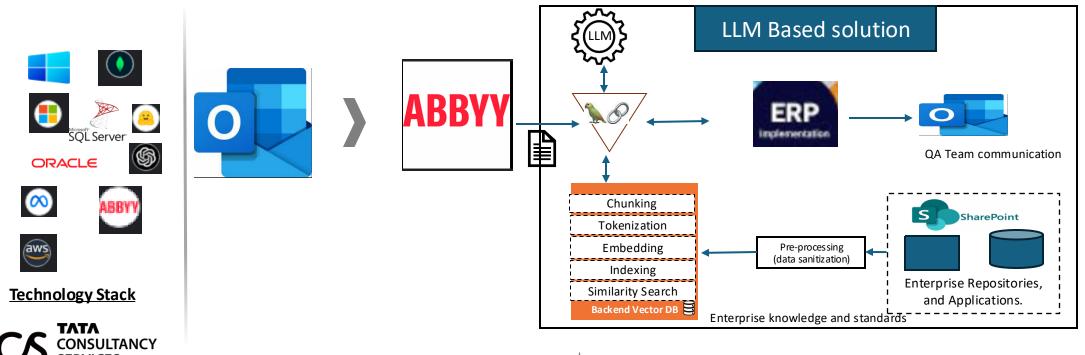






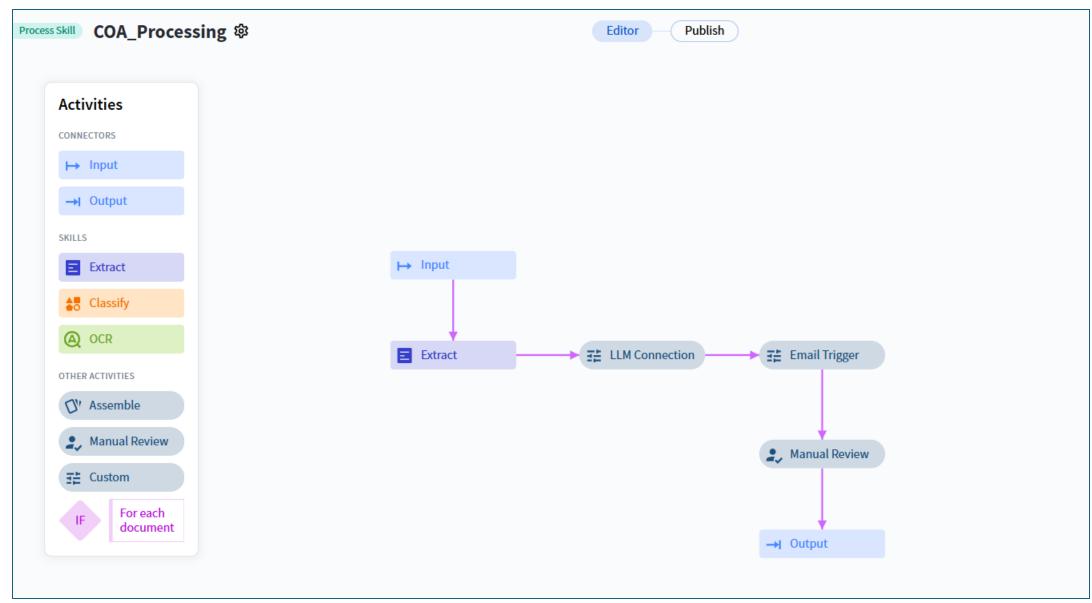
# Downstream processing using LLMs

- Once ABBYY Vantage outputs the structured COA data, the next step is to determine whether the product
  passes or fails the quality requirements and if it fails, to articulate the reasons. Traditionally, a quality
  engineer would compare each test result against acceptable ranges and then decide if the batch meets all
  criteria. Here, we automate that cognitive step using a Generative AI (GenAI) platform
- After the GenAl service determines the quality status, the solution moves to notifying the relevant parties
  and documenting the outcomes. This involves composing a structured email report (or potentially other
  forms of alert) and sending it to the appropriate stakeholders (e.g., the Quality Control team, Production
  managers, Procurement, etc., depending on the use case).





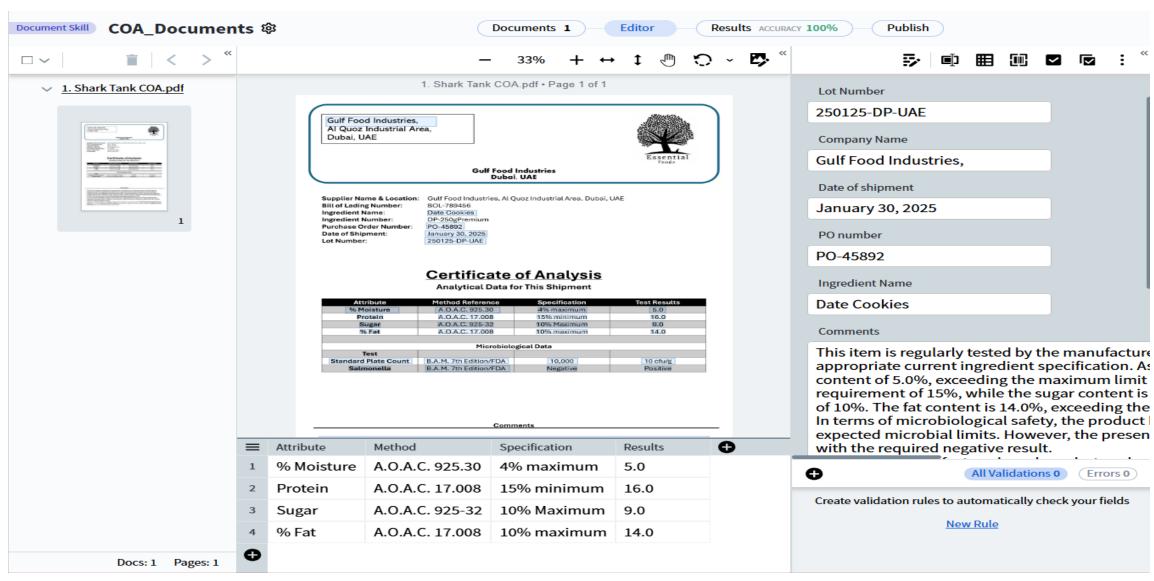
## Process Skill – COA







### **Document Skill - COA**







# TCS Intelligent Automation Practice: Enabling Future Ready Enterprise



**Everest Group** 

**Intelligent Process Automation**, Peak Matrix, 2023



**NEAT - Business Process** Transformation through RPA & AI, 2022

#### AVASANT

**Intelligent Automation** Services RadarView, 2022-23

#### Gartner

Gartner - Market **Guide for Intelligent** Automation, 2022



**APAC Intelligent Automation** Services [Q1FY22]



**Hyper Intelligent Automation Services** [Q3FY22]



**OneOffice Services: Native Automation** [Q3FY22]

FORRESTER

**RPA Service Providers** 

#### Offerings

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**50,000+ Experienced** Automation professionals

**5,000+** Al professionals

10,000+ RPA Consultants

2,000+ Data Scientist









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# Thank You

TCS, the purpose-led transformation partners. We use innovation and the power of collective knowledge to build on our shared beliefs.

#### The TCS commitment









Bring everything

**Know-how** 

Master the journey