

# Enhancing ERP Systems with AI

Navigating the new era of AI innovation



# Our World is Changing Faster Than Ever

Companies are facing a workforce transformation



**2000s**

**IT Transformation**

Cloud Computing



**2010s**

**Digital Transformation**

Social | Mobile | Apps | Big Data



**Today**

**Workforce Transformation**

Automation | AI

# Industry

# Trends



**Automation  
and AI**



**Data Analytics**



**Blockchain  
Technology**



**Regulatory  
Technology**



**Remote Auditing**



**Customer  
Experience**



**Cybersecurity  
Measures**



**Sustainability  
and ESG  
Reporting**



**Continuous  
Learning**

# Digital Transformation Platform

## → Innovation

Digital Transformation of Core Government Entity



## → Optimization

Machine Assisted Decision Making - Predictions & scenario evaluation for productivity improvements

## → Connected, Real-Time

Simplify Process | Upgrade | Standardization across departments / entity | Get to high integrity transaction data

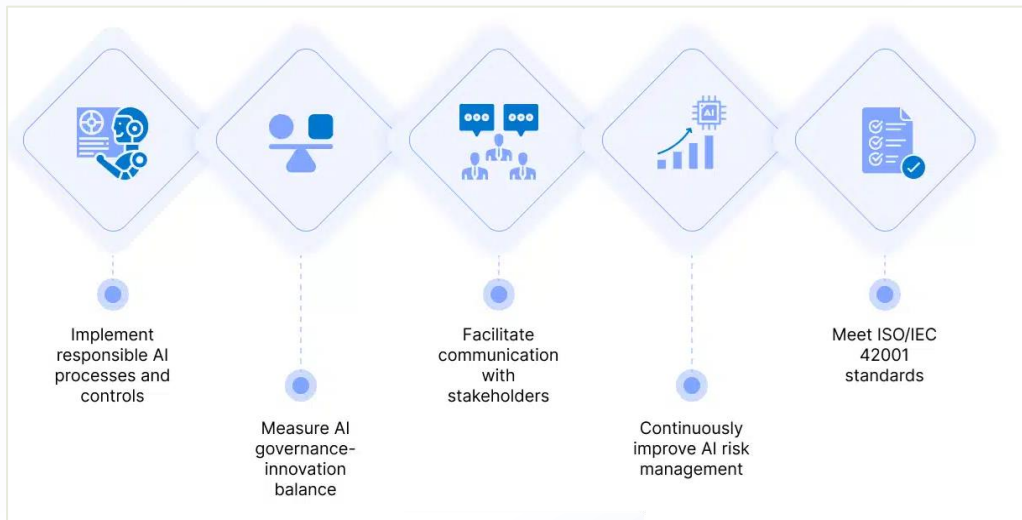
# AI Compliance & Regulations

## ISO / IEC 42001 & EU-AI Act

### About ISO/IEC 42001

ISO/IEC 42001 is an international standard that provides a governance framework for implementing and continually improving artificial intelligence management systems. It ensures the responsible development and application of AI systems and is intended for organizations that offer or utilize AI-based goods or services.

### Benefits



### Core Components of ISO 42001

- AI Management Systems (AIMS)
- AI Risk Assessment
- AI Impact Assessment
- Data Protection and AI Security

### About EU-AI Act

A comprehensive legislative framework designed to guarantee the ethical and safe implementation of AI systems throughout the European Union is the EU AI Act. It classifies AI technology according to risk categories, which range from negligible to intolerable risk. It also imposes stringent regulations on higher-risk AI systems. The goal of this law is to safeguard the safety and rights of citizens while promoting innovation.

### EU Artificial Intelligence Act: Risk levels

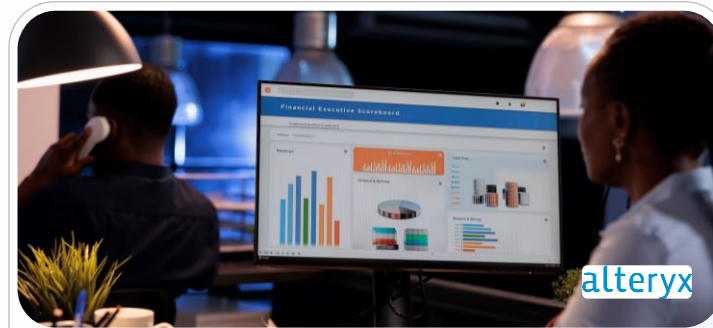


# How AI, and Alteryx can be used for enhancing your ERP experience, making it easier, faster, and more accurate than ever.



AI

AI involves using machines and software to simulate human intelligence. In your field, AI can analyze vast amounts of data, recognize patterns, and provide insights that help in decision-making, audits, and advisory services.



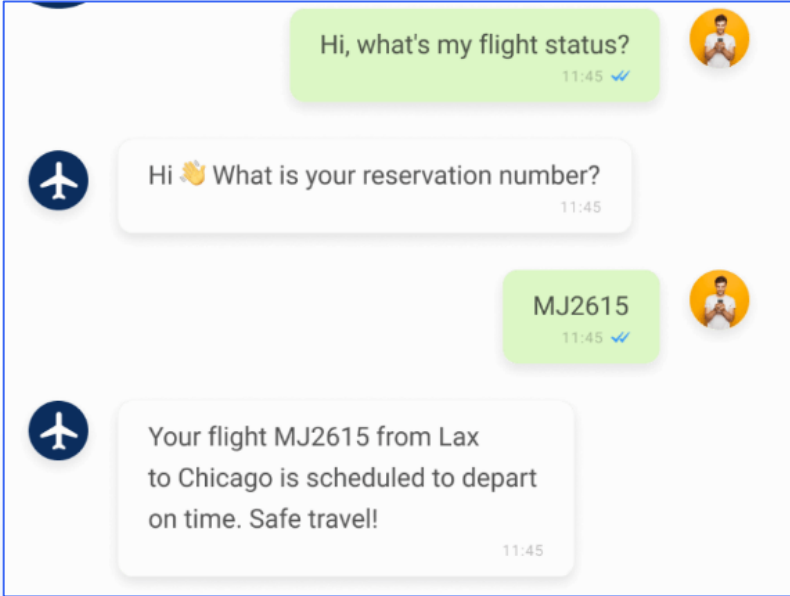
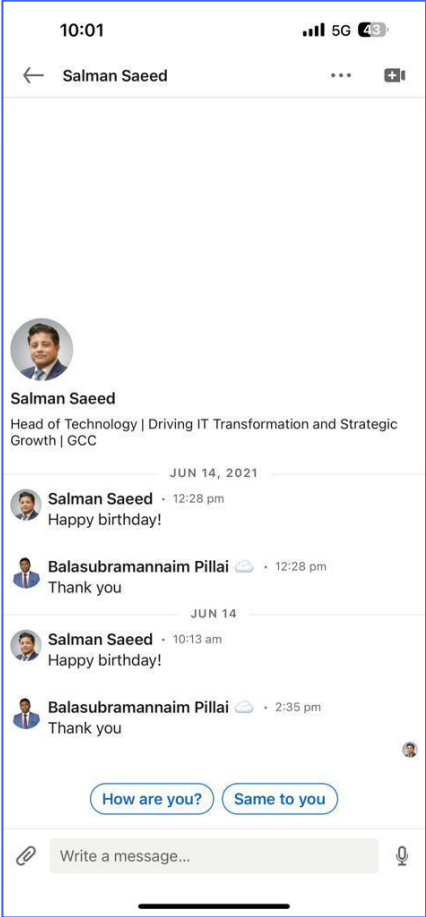
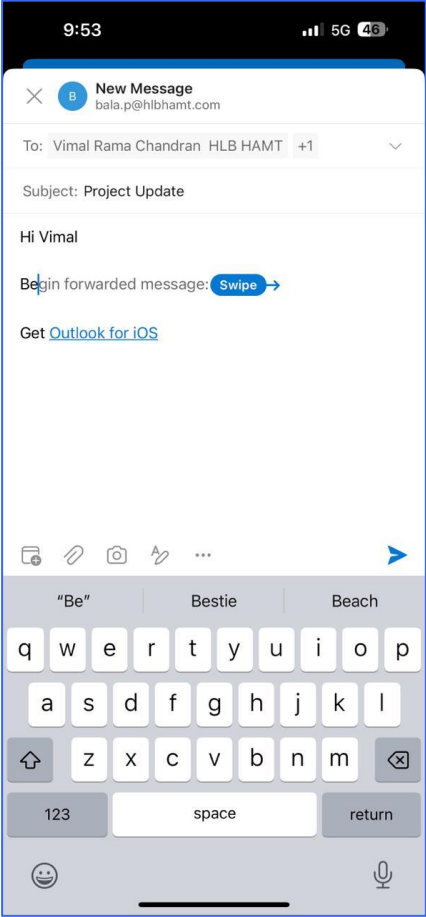
alteryx

Alteryx is a data analytics tool that automates data preparation, blending, and analysis, allowing users to quickly gain insights without needing coding expertise.

# AI Use Cases



# Artificial Intelligence





# Automation & AI

## Use Cases for ERP



Processing with  
Natural Language  
Processing (NLP)\*



Cash-Flow  
Forecasting



Automated  
Compliance Audits



Supplier Risk  
Management



Smart Pricing  
and Discounting



Inventory  
Optimization with  
Machine Learning



Automated Expense  
Management



Customer Segmentation  
and Targeting



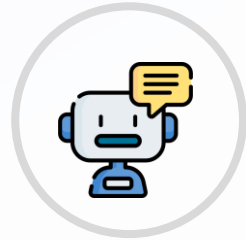
Employee  
Productivity and  
Resource Allocation

# Automation & AI

## Use Cases for ERP



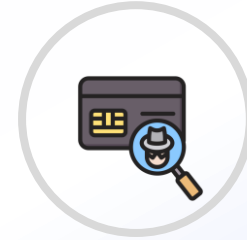
**Intelligent Demand Planning in Manufacturing**



**AI-Driven Chatbots for Supplier Communication**



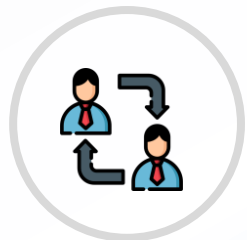
**Dynamic Workforce Planning**



**Fraud Detection in Accounts Payable**



**AI-Enhanced Supply Chain Visibility**



**Employee Attrition Prediction**



**Automated Tax Compliance**



**Vendor Selection and Contract Analysis**

## Use Cases



### Voice-Based Ordering System

Integrating voice recognition and AI in product selection and sales order processes can significantly enhance user experience and operational efficiency. This system allows customers to select products and generate orders through voice commands, streamlining the shopping experience.

#### Workflow

Voice Command Initiation to Start Shopping >> Product Selection & Confirmation >> Order Generation & Review >> Payment Processing >> Confirmation



Voice Recognition Technology



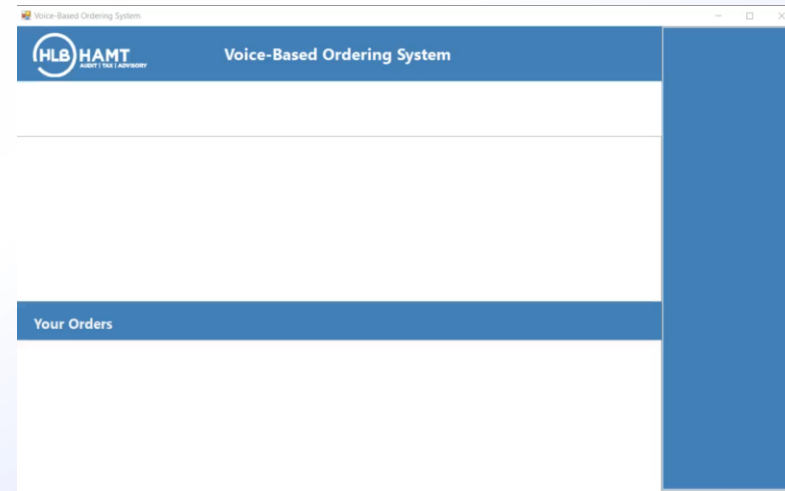
AI-Powered Recommendation System



Product Database



Order Management System

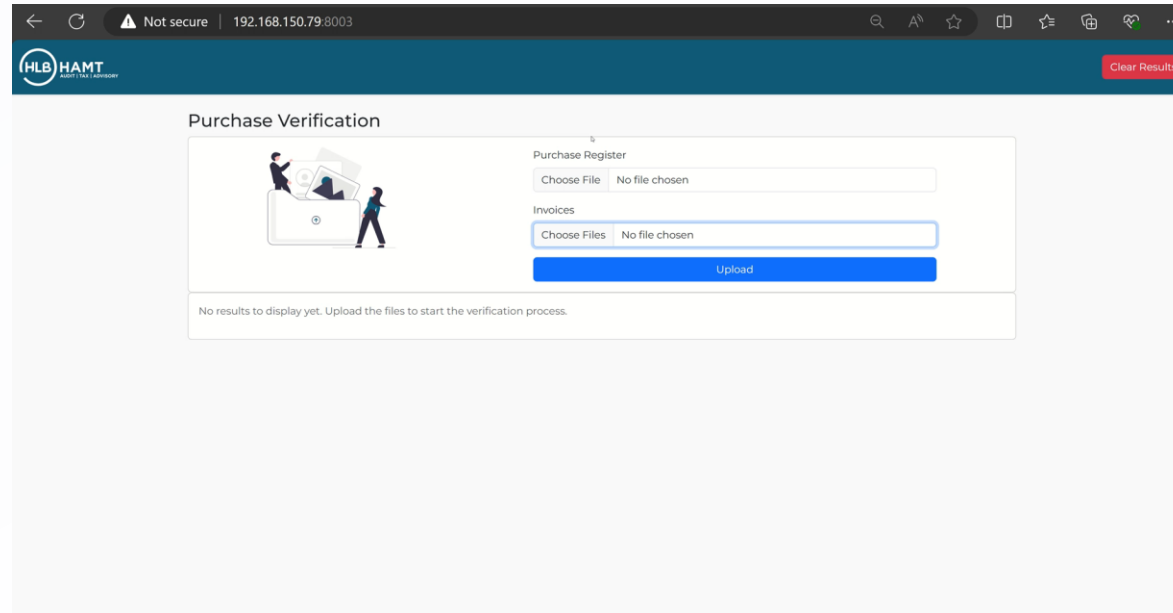
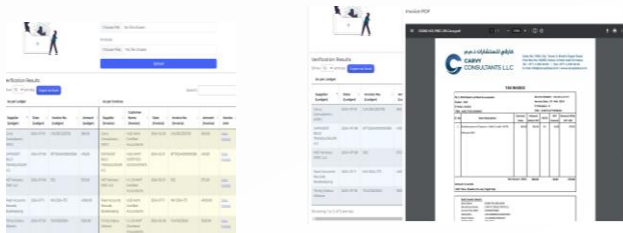


## Use Cases



### Purchase Verification

- Help users verify their purchase records by comparing a list of purchases with multiple invoices. Users can upload both the purchase list and the related invoices through a simple form.
- Extracts the information from the uploaded files and checks if the details in the invoices match those in the purchase record, such as supplier names, dates, invoice numbers, and amounts. Once the comparison is complete, the results are displayed

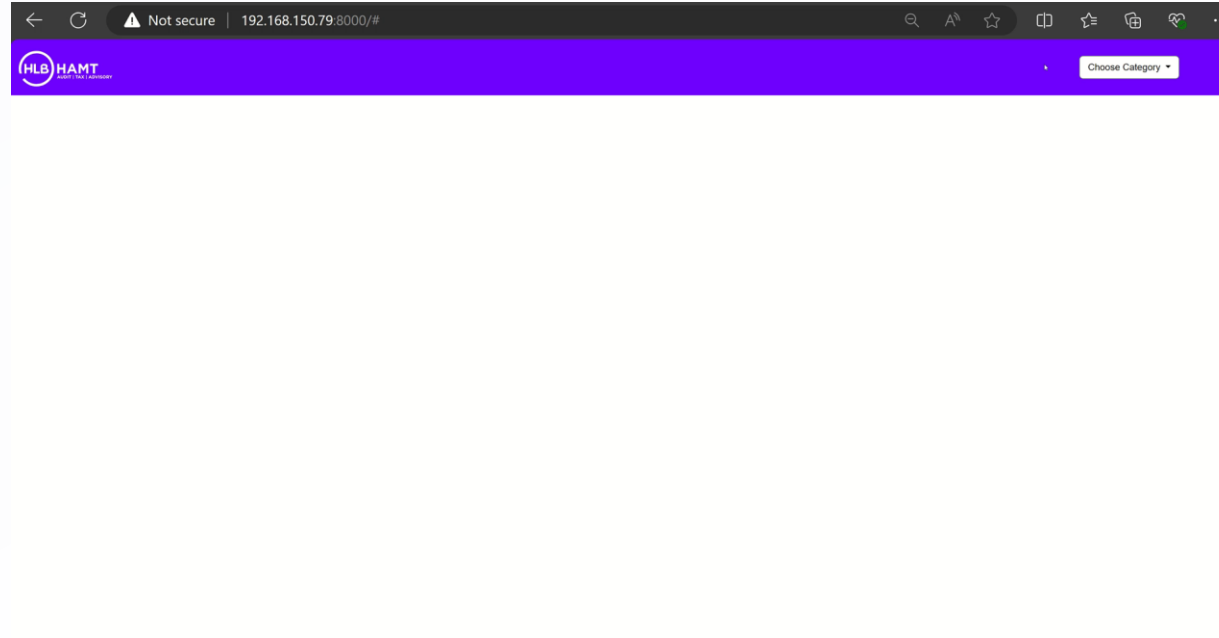
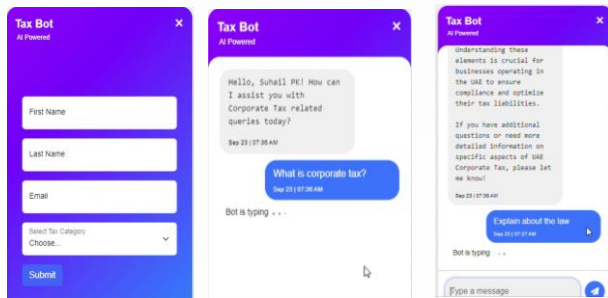


## Use Cases



### AI Assistant Bot

- Help users with corporate tax or VAT-related inquiries, leveraging both an extensive tax data repository and AI-driven conversational responses
- User-friendly chat interface where users can input their tax-related questions and get appropriate answers
- The app generates embeddings (semantic representations) for stored tax data

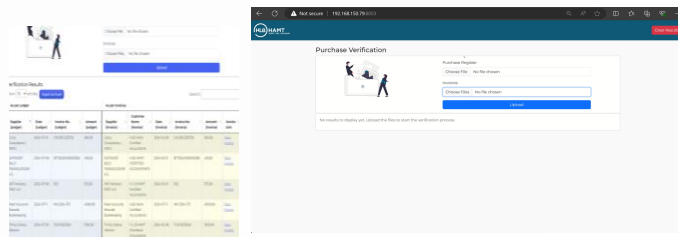


# Use Cases



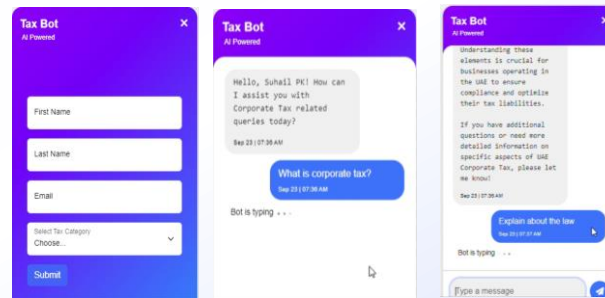
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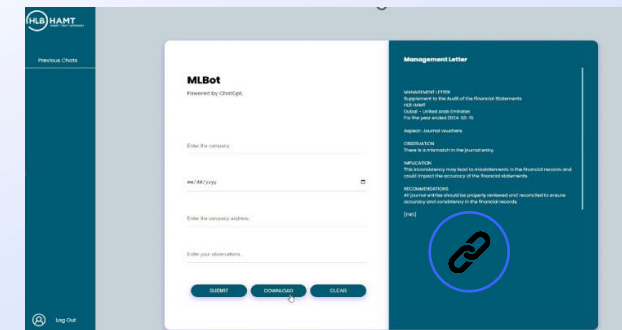
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## Automated Management Letter Generator

- Analyzes user input and generates tailored responses.
- Generates structured management letters with observations, implications, and recommendations.
- Ensures consistency, accuracy, and confidentiality
- User-Friendly, scalable, and maintainable



# Alteryx Use Cases



## The Alteryx Platform for Enterprise Analytics

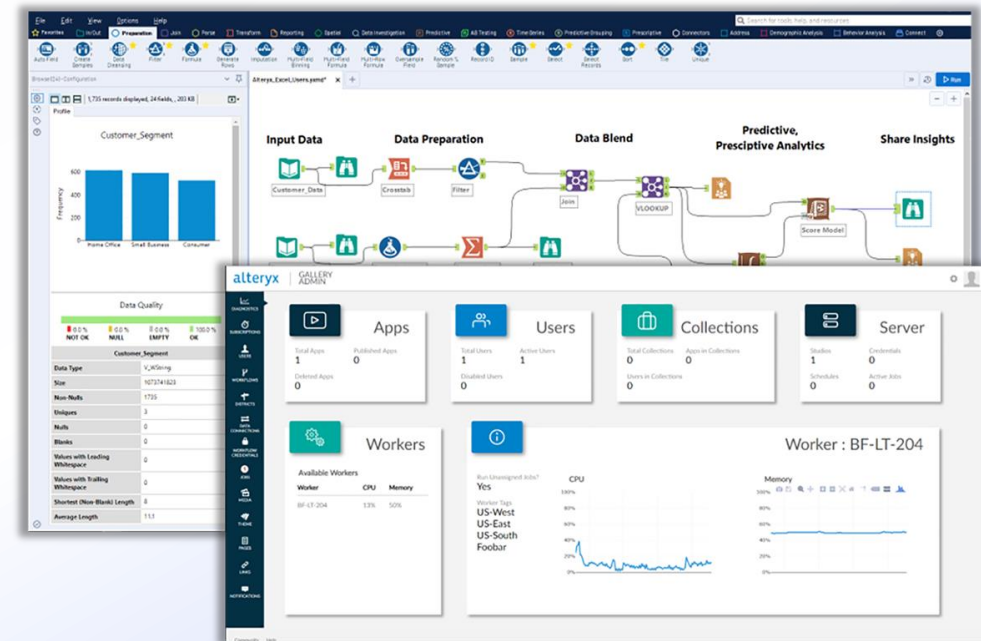
Alteryx is a data analytics platform that specializes in data preparation, blending, and advanced analytics. It is designed for users at all levels, from business analysts to data scientists, facilitating data-driven decision-making.

### Key Components

- Alteryx Designer
- Alteryx Server
- Alteryx Connect
- Alteryx Promote
- Alteryx Analytics Hub

### Functionalities


- Data Preparation and Blending
- Predictive Analytics
- Spatial Analytics
- Text Analytics
- Reporting and Visualization



# alteryx



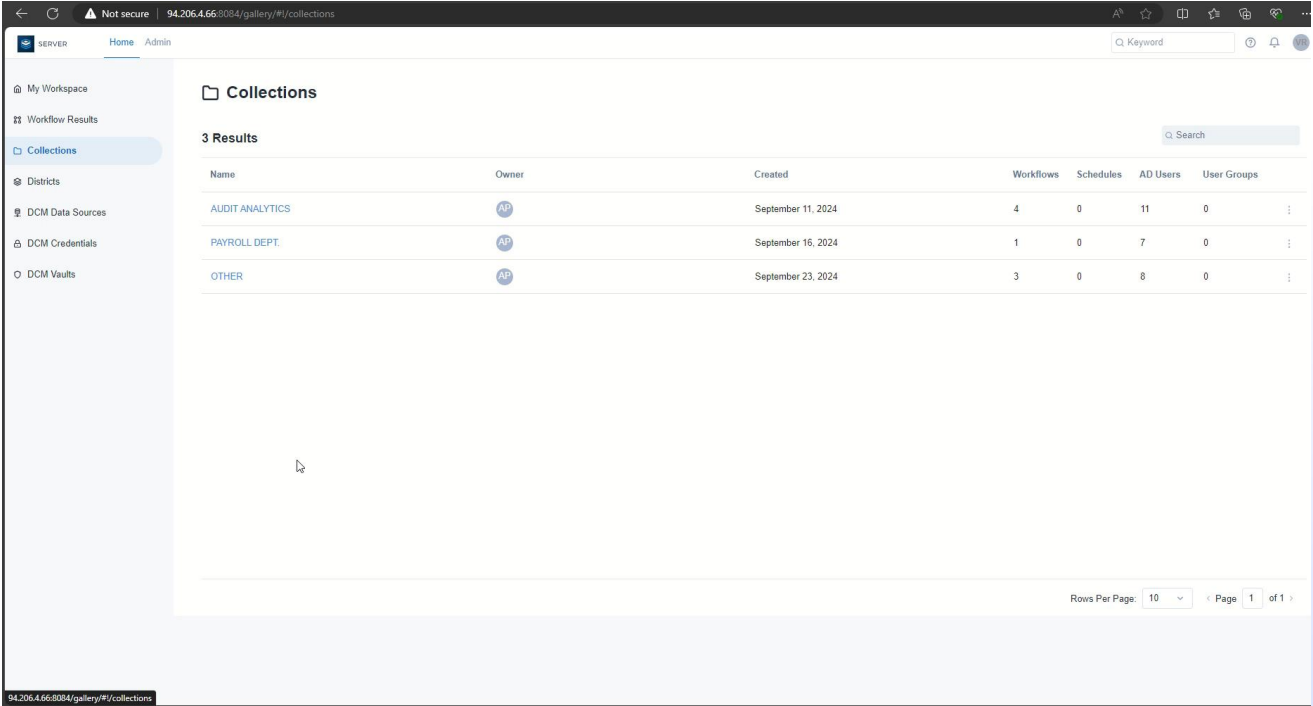
# Use Cases



## Bank Reconciliation

Current Scenario:  
Manually done,  
chances of improper  
reconciliation.

Alteryx Use Case:  
Reconciliation results  
with missing details will  
be obtained within  
seconds



The screenshot shows the Alteryx 'Collections' interface. It features a sidebar with navigation options: My Workspace, Workflow Results, Collections (selected), Districts, DCM Data Sources, DCM Credentials, and DCM Vaults. The main area displays '3 Results' in a table format. The table has columns for Name, Owner, Created, Workflows, Schedules, AD Users, and User Groups. The data rows are:

Name	Owner	Created	Workflows	Schedules	AD Users	User Groups
AUDIT ANALYTICS	AP	September 11, 2024	4	0	11	0
PAYROLL DEPT.	AP	September 16, 2024	1	0	7	0
OTHER	AP	September 23, 2024	3	0	8	0

At the bottom right of the table, there is a pagination control showing 'Rows Per Page: 10' and 'Page 1 of 1'.

# Use Cases



## Sales Register to GL Reconciliation

Current Scenario:  
Currently done manually, chances of improper reconciliation.

Alteryx Use Case:  
Complete zero error reconciliation output within seconds

The screenshot displays the Alteryx web interface for a workflow named "BANK TO STATEMENT RECONCILIATION.yxwz". The interface includes a sidebar with navigation options like "My Workspace", "Workflow Results", "Collection", "Districts", "DCM Data Sources", "DCM Credentials", and "DCM Vaults". The main content area shows workflow details such as the owner "Anandkrishnan Panangaatt", the AMP status "checked", and the published date "Sep 12, 2024, 01:05 PM". Below the details is a "Job Results" table with the following data:

Job	Status	AMP	Priority	Completed	Length	Type	Assigned Worker	Run As
> BANK TO STATEMENT RE...	✓	✓	Low	September 28, 2024 at 1:30 PM	00:00:07	Manual	Unassigned	[User Icon]
> BANK TO STATEMENT RE...	✓	✓	Low	September 28, 2024 at 1:28 PM	00:00:07	Manual	Unassigned	[User Icon]

## Use Cases



### Audit Analytics

Current Scenario:

Audit Tests conducted through CaseWare and ACL Analytics,

Output took anywhere between 2.5 hours to 3 hours

Alteryx Use Case:

Conducts a set of 10 tests, output in less than a minute



### Payroll WPS Validation

Current Scenario:

Manual comparison of the SIF Files and the Bank Transfer Files led to errors.

Alteryx Use Case:

38 checkpoints are scanned in both SIF Files and the Bank Transfer Files

Output in a matter of seconds, including the actual error summary.



### Sales Register to GL Reconciliation

Current Scenario:

Currently done manually, chances of improper reconciliation.

Alteryx Use Case:

Complete zero error reconciliation output within seconds



### Opening Balance Verification

Current Scenario:

Currently done manually, chances of improper reconciliation.

Alteryx Use Case:

Account level balance mapping happens, and all the matched and unmatched groups are separated.



### Bank Reconciliation

Current Scenario:

Manually done, chances of improper reconciliation.

Alteryx Use Case:

Reconciliation results with missing details will be obtained within seconds

## Use Cases



### AR Bracket testing

**Current Scenario:**

A lot of time is spent preparing the Ageing Table based on the Transaction and AR List

**Alteryx Use Case:**

Ageing table is prepped based by Alteryx based on AR list and List of transactions, output in seconds



### IFRS 16 Working

**Current Scenario:**

Excel sheets were used to calculate the rent-depreciation value, took 15 minutes to get output

**Alteryx Use Case:**

Any Assets Working can be prepared on Alteryx under half a minute



### Revenue Analysis

**Current Scenario:**

Identifying risk areas in the revenue register is a tedious time time-consuming job

**Alteryx Use Case:**

Alteryx imports data based on the revenue register and identifies risk areas in revenue within seconds



**Demo link**



**THANK YOU**

**CONTACT US**

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