



Mining Gold from the Shadows

Unveiling Insights from Dark Data by Digging, Diving, Scraping, and Processing Decades of Data

CASE STUDY

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Overview



SCRIBES

Scribes is a solution designed to digitize and extract valuable insights from financial records, receipts, and scanned documents. By employing character recognition, Generative AI, and structured data processing techniques, Scribes transforms unstructured financial data into structured and actionable insights.

Scribes streamlines document processing, enabling businesses to make data-driven decisions with greater efficiency and accuracy.

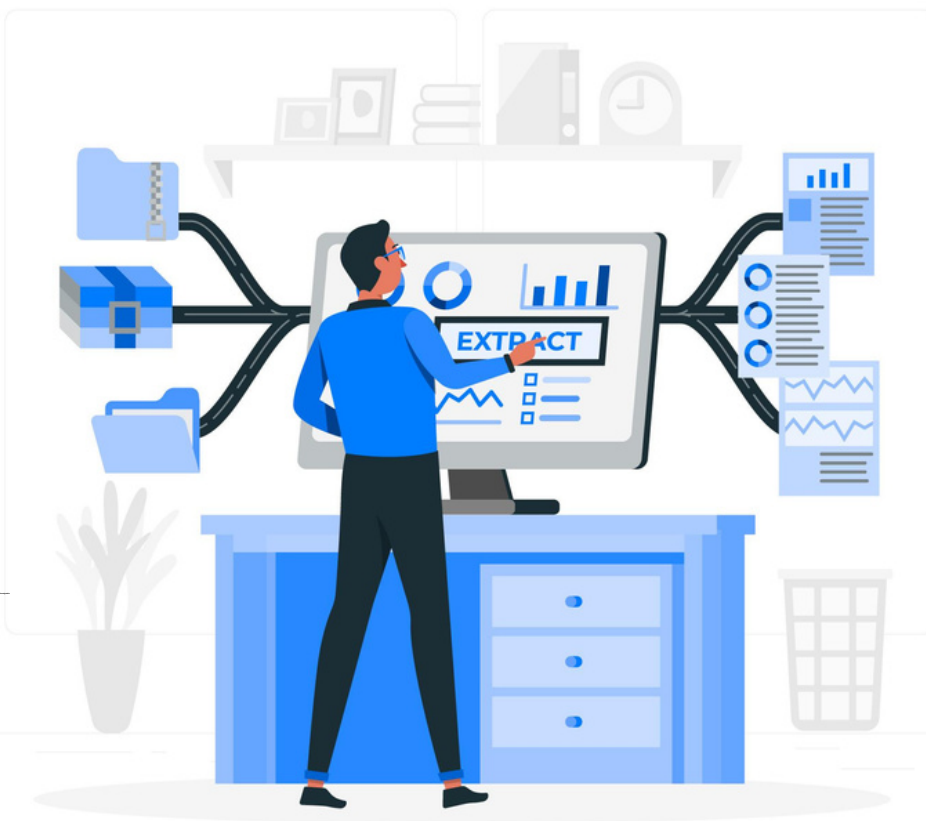
Key Features:

- Seamless Document Handling
- Actionable Insights
- Enhanced Business Efficiency
- Advanced OCR Technology
- AI-Powered Data Processing

Introduction

For years, businesses have been drowning in mountains of paperwork—scanned invoices, receipts, and financial records stacked away in folders, untouched and unread. Hidden within these documents lies valuable insight, yet extracting it has always been a tedious, error-prone process.

Scribes—a solution designed to bring order to the chaos. By automating the extraction and structuring of financial data. Scribes transforms scattered documents into organized, actionable insights, empowering businesses to make smarter, data-driven



Problem Statement

The retail and financial sectors handle vast amounts of paper-based financial documents, including invoices, receipts, and transaction records. However, managing and extracting insights from these documents present several challenges:

- **Manual Data Entry Issues**
- **Unstructured Financial Data**
- **Limited Integration Capabilities**
- **Lack of Actionable Insights**

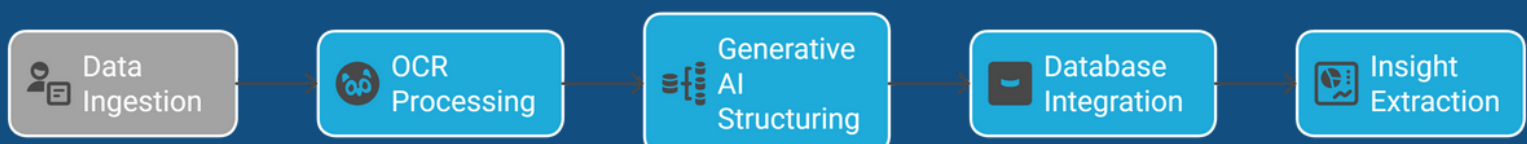
These challenges highlight the urgent need for an automated solution to efficiently digitize, structure, and analyze financial data.



Methodology

Scribes follows a structured workflow to efficiently transform financial documents into digital formats:

1. **Generative AI Structuring:** Extracted text is processed using a Generative AI model, ensuring well-structured and formatted data.
2. **Database Integration:** The structured data is stored in a database, enabling optimized querying and seamless retrieval.
3. **Insight Extraction:** The frontend fetches structured data and delivers financial insights through data visualization tools.
4. **Data Uploading:** Users upload scanned images, invoices, or receipts through the Streamlit interface.
5. **OCR Processing:** Optical Character Recognition (OCR) extracts text from images with high accuracy for further processing.





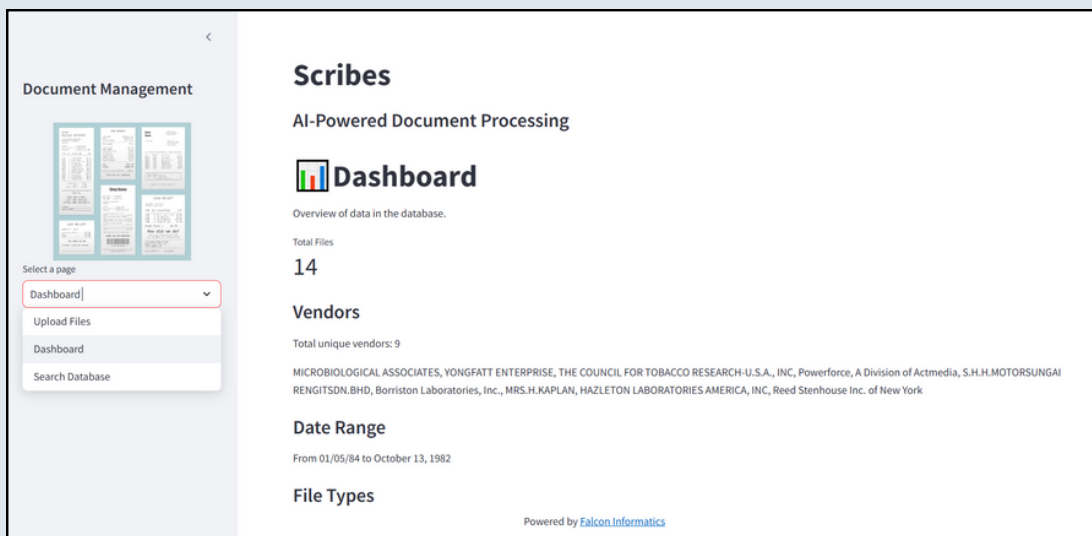
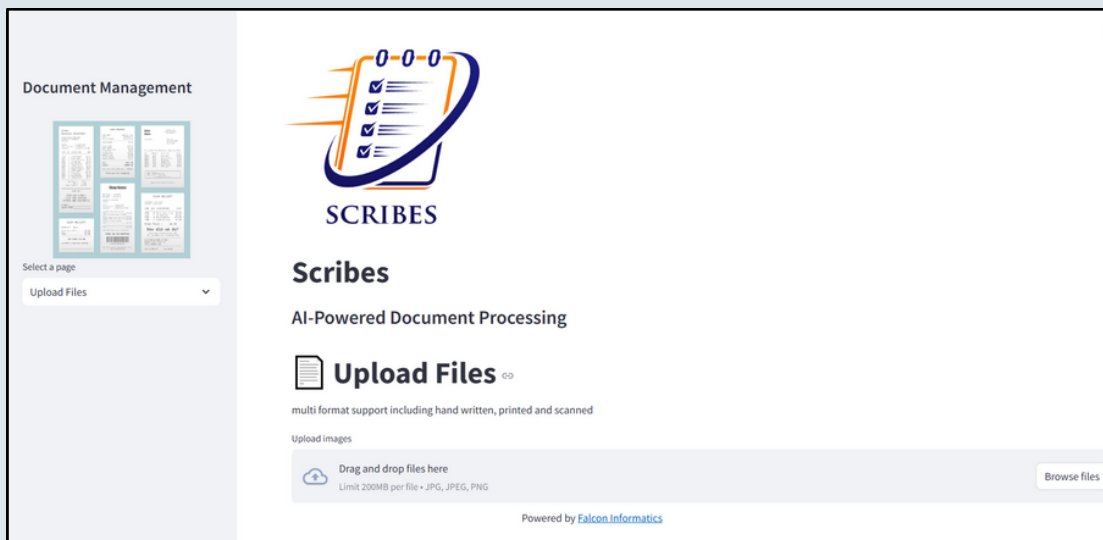
Key Insights

Improved Efficiency: Automated processing reduced manual data entry time by over 80%.

Enhanced Accuracy: AI-based structuring minimized text extraction errors.

Seamless Integration: The database format enabled faster data retrieval and analysis.

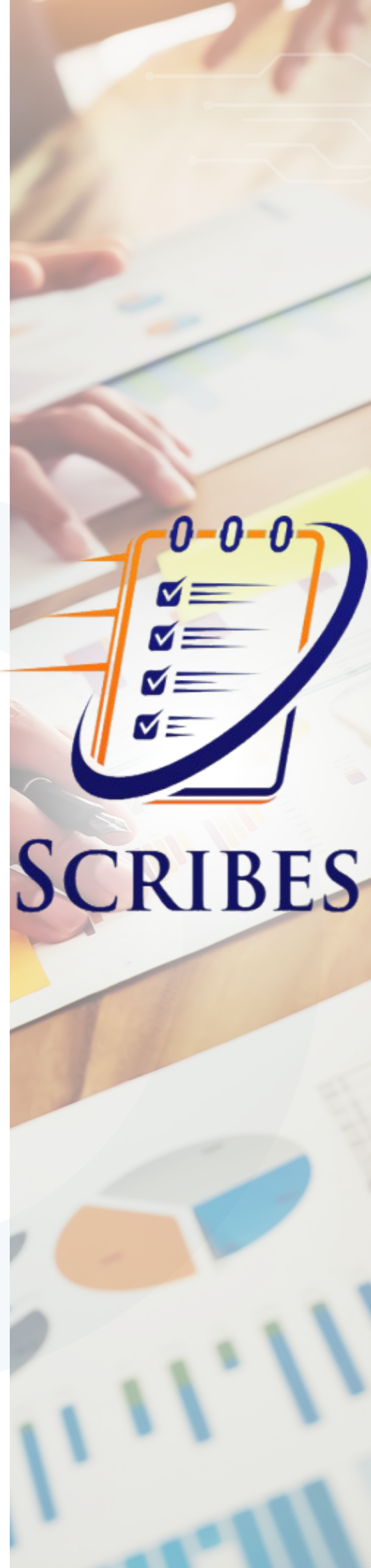
Actionable Financial Insights: Businesses could identify cost-saving opportunities and revenue patterns from structured financial data.



Conclusion

Scribes redefines financial document processing by AI-powered structuring and advanced database technology. It seamlessly digitizes receipts, invoices, and records, ensuring accuracy, efficiency, and easy accessibility.

As businesses increasingly adopt automation, the demand for document processing solutions has never been greater. Scribes not only eliminates the inefficiencies of manual data handling but also enhances data accessibility, compliance, and security. By converting unstructured financial records into structured insights, it empowers organizations to make informed, data-driven decisions with confidence.



◆ **Can this solution integrate with our enterprise infrastructure?**

Yes, Scribes supports API-based and database integration with enterprise systems.

◆ **Can the process be optimized for better efficiency?**

Yes, by fine-tuning OCR, optimizing AI structuring, and enabling batch processing.

◆ **Does it support on-premises or standalone PC deployment?**

Yes, Scribes runs on both on-premises servers and standalone PCs.

◆ **What are the licensing options?**

Enterprise licensing options like SaaS or subscription.

◆ **Is it user-friendly for non-technical employees?**

Yes, the simple upload-based interface requires minimal training.

◆ **Does it need supervision or function autonomously?**

Mostly autonomous, with occasional checks for OCR accuracy.

◆ **What security measures are in place?**

Encryption, access control, and compliance-ready features.

◆ **How scalable is this solution?**

Highly scalable with database optimizations and AI model enhancements.

◆ **What support is provided post-deployment?**

Regular updates, bug fixes, and enterprise support services.

◆ **Can it handle high workloads efficiently?**

Yes.

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