

A New Era of Intelligence: How Audit Sight Transformed Audit Reviews with AI-Powered Classification and Natural Language Search



Facing slow, manual audit workflows, Audit Sight partnered with Uturn to build an AI-powered analytics platform on AWS--combining intelligent transaction classification and natural language search to give auditors faster insights, intuitive data exploration, and a dramatically improved user experience.

KEY CHALLENGES

Audit Sight, a pioneering platform for verifying financial transactions, needed to enhance their capabilities to better serve auditors. Their existing solution lacked advanced classification for financial data and intuitive user interfaces for data exploration. With a growing customer base across multiple clients, Audit Sight needed a scalable solution that would allow users to interact with complex financial data through natural language queries rather than complex technical interfaces.

The company faced several challenges, including:



Implementing effective classification algorithms for financial transaction data



Creating an intuitive interface for users to query and visualize data



Ensuring data security and appropriate access controls across multiple clients



Enabling exportable, annotatable reports that could be integrated into audit documentation

"The natural language query interface is exactly what our users need - it allows them to focus on finding financial insights rather than learning complex technical interfaces. Uturn helped us transform our vision into reality by implementing a solution that truly understands the needs of auditors and financial professionals."

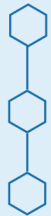
- Eric Kingrey, Co-Founder and CTO, Audit Sight



THE SOLUTION

Uturn Data Solutions led a **focused eight-week engagement to design, build, and deploy a tailored analytics and AI architecture** within Audit Sight's AWS environment—aligning deeply with business goals, data structures, and auditor workflows to ensure immediate and scalable impact.

Tech Stack



Amazon QuickSight Q (Natural Language Query)

Python Data Science Libraries (scikit-learn, pandas, numpy)

AWS Cloud Services (S3, Glue)



Machine Learning Classification Algorithms (Agglomerative Clustering)

Boto3 AWS SDK for programmatic S3 integration

From Discovery to Deployment - Our Approach Included:

- **Performing deep-dive discovery sessions** with Audit Sight's subject matter experts to understand data structures, user needs, and technical requirements
- **Implementing sophisticated classification algorithms** for Audit Sight's financial data, focusing on journal entries, accounts, and related financial records.
- **Creating a Natural Language Query (NLQ) interface** using Amazon QuickSight Q, enabling users to ask questions about financial data in plain English
- **Developing customized data topics** specifically configured for financial data exploration, with careful attention to field naming, synonyms, and appropriate aggregation methods
- **Configuring visualization capabilities** that automatically generate the most appropriate charts and graphs based on query results
- **Enabling data export and sharing functionality** to support audit documentation and collaboration

Turning Complexity into Clarity: Driving Measurable Outcomes for Audit Sight



Intuitive and Efficient Data Exploration

Audit Sight users can now query data using natural language, dramatically improving the user experience and enabling faster discovery of insights through conversational interactions.



Smarter Visualizations and Streamlined Workflows

Automatically generated charts and trend insights help auditors quickly interpret complex data, while export and annotation tools simplify documentation and collaboration.



Scalable, Secure Architecture for Growth

The solution is built for multi-client scalability, with robust data isolation and security controls that support growth without compromising compliance.

Want to unlock hidden value in your data? Email or call us today for a free consultation.

