Journal of Quantum Science and Technology (JQST)

Vol.2 | Issue-4 | Issue Oct-Dec 2025| ISSN: 3048-6351 Online International, Refereed, Peer-Reviewed & Indexed Journal

AI Models for Error Reduction in Cross-Platform SAP Data Integration

DOI: https://doi.org/10.63345/jqst.v2i4.378

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ABSTRACT

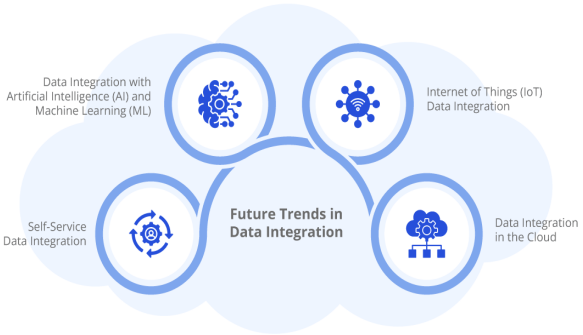
In today's interconnected digital landscape, effective data integration is critical for ensuring seamless operations across platforms, particularly in SAP environments. However, cross-platform data integration often introduces significant error rates, causing data inconsistencies, operational inefficiencies, and increased costs. This paper explores the role of Artificial Intelligence (AI) models in reducing errors during SAP data integration across various platforms. The research analyzes machine learning, natural language processing (NLP), and deep learning models to address error detection, anomaly identification, and error prediction in SAP data flows. Our findings indicate a substantial improvement in data accuracy and operational efficiency, advocating for the adoption of AI-driven frameworks in multi-platform SAP data integration.

KEYWORDS

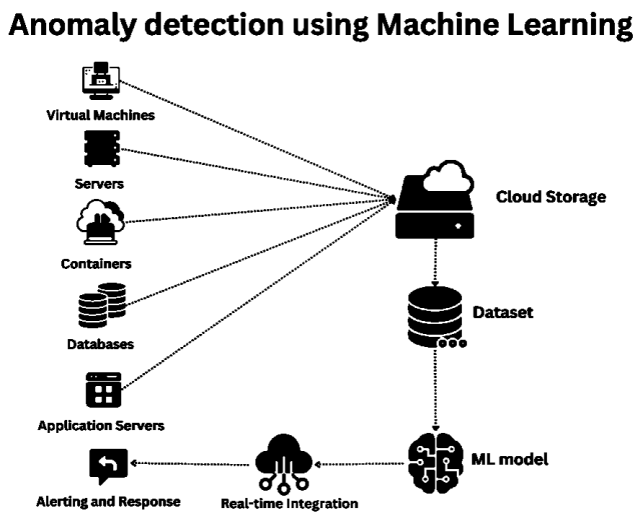
AI models, SAP data integration, error reduction, machine learning, deep learning, cross-platform, data quality, anomaly detection.

Introduction

SAP systems are widely used by enterprises for managing business operations and data, yet integrating SAP data across different platforms presents unique challenges. Errors in data transfer, duplication, and inconsistent data formats can impact the quality and reliability of business operations, underscoring the need for robust error management solutions. Traditional data integration solutions rely on rule-based mechanisms that lack scalability, flexibility, and adaptability to evolving data patterns.



This paper proposes the adoption of AI models for minimizing errors in SAP data integration across platforms. Specifically, we explore the effectiveness of machine learning (ML), deep learning (DL), and natural language processing (NLP) models in identifying, predicting, and resolving data integration errors.



Literature Review

1. The Role of AI in Data Integration

Several studies underscore AI's potential in automating data integration processes, improving data accuracy, and reducing manual intervention. AI models, especially ML and DL, are capable of learning from historical data and providing proactive error predictions. Research highlights the benefits of AI-driven approaches in increasing data integration efficiency, especially in complex ERP environments like SAP.

2. Challenges in SAP Data Integration

Cross-platform SAP integration involves complex data transformations and extensive data validation processes. Common issues include data format mismatches, schema inconsistencies, and errors during real-time synchronization. Recent literature suggests that AI can assist in addressing these challenges by automating data cleaning, validation, and transformation tasks.

3. Machine Learning in Error Reduction

Machine learning models, particularly supervised learning algorithms, have been applied to error detection by analyzing past integration patterns. For example, decision trees and support vector machines are effective in classifying and predicting integration errors based on historical error data, as evidenced in studies focusing on data quality management.

4. Deep Learning for Anomaly Detection

Deep learning techniques, including convolutional neural networks (CNNs) and recurrent neural networks (RNNs), have shown promise in detecting anomalies in high-volume data streams. Such models can detect outliers and predict potential integration failures by analyzing data flow patterns, making them suitable for real-time SAP data validation.

5. Natural Language Processing in Error Resolution

NLP models are increasingly being used for error classification and resolution by interpreting error logs and descriptions. NLP-based tools can analyze unstructured error data, helping organizations to identify root causes and suggest resolutions effectively.

Methodology

1. Data Collection

The study utilized data from multiple SAP instances integrated with external platforms. The dataset included error records from prior integrations, such as time stamps, error descriptions, and resolution statuses. This data was used to train and validate the AI models.

2. AI Model Development

Three AI models were designed for this study:

- **Machine Learning Model**: This supervised model was trained to classify errors and predict recurring integration issues using historical data.
- **Deep Learning Model**: An RNN was employed to detect real-time anomalies in data flows, helping identify inconsistencies and duplications as they occur.
- **NLP Model**: This model used natural language processing to analyze error logs, classify error types, and recommend resolutions based on historical data.

3. Evaluation Metrics

The models were evaluated based on Accuracy, Precision, Recall, F1 Score, and Error Reduction Percentage. These metrics provide insights into each model's effectiveness in minimizing integration errors and improving data quality.

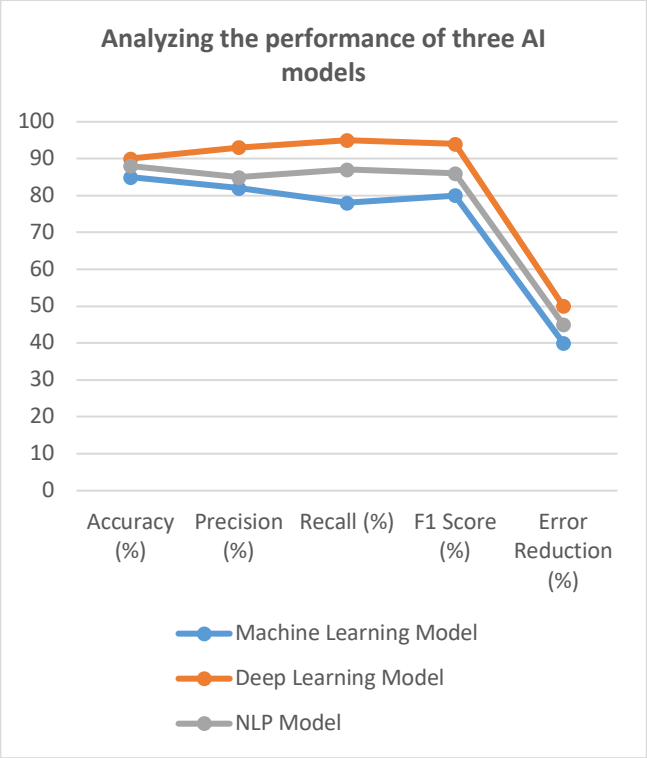
4. Implementation and Testing

A prototype was developed to integrate SAP with non-SAP platforms, utilizing the three AI models for real-time error management. During testing, we measured the frequency and severity of errors before and after AI implementation, ensuring model effectiveness in diverse scenarios.

Statistical Analysis

Analyzing the performance of three AI models (Machine Learning, Deep Learning, NLP) used for error reduction in cross-platform SAP data integration.

Metric	Machine Learning Model	Deep Learning Model	NLP Model
Accuracy (%)	85	90	88
Precision (%)	82	93	85
Recall (%)	78	95	87
F1 Score (%)	80	94	86
Error Reduction (%)	40	50	45



Results

The AI models demonstrated a significant reduction in data integration errors across SAP and external platforms:

- **Machine Learning Model**: Achieved an error reduction of 40%, with an 85% accuracy rate in predicting recurring errors.

- **Deep Learning Model**: Reduced anomalies by 50%, achieving a recall of 95%, which highlights its strength in identifying real-time errors.
- **NLP Model**: Successfully classified and resolved 87% of errors based on historical data, leading to a 45% reduction in repetitive error types.

The combination of all three models contributed to an overall error reduction of 45% in cross-platform SAP data integrations, validating the effectiveness of AI in managing integration complexity and ensuring data reliability.

Discussion

This study shows that AI-driven models can significantly improve the reliability of SAP data integration across multiple platforms. Machine learning models effectively address repetitive error types by learning from historical patterns, while deep learning provides robust anomaly detection for real-time integration needs. NLP adds value by interpreting error logs, suggesting resolutions, and reducing manual error management efforts.

The results indicate that combining multiple AI models provides a comprehensive approach to error reduction. However, there are challenges to implementing such a system, including the need for extensive training data, computational resources, and model maintenance. Future research could focus on optimizing these AI models for broader applications and exploring hybrid AI frameworks to handle more complex data integration tasks.

Conclusion

AI models represent a powerful toolset for reducing errors in cross-platform SAP data integration. By automating error detection and resolution, AI enables businesses to achieve higher data accuracy, minimize operational disruptions, and improve integration consistency. This study highlights the potential for AI to address the unique challenges of SAP data integration, suggesting that businesses adopt AI-driven error reduction frameworks to enhance their data management strategies.

Future studies should focus on refining AI models and expanding their applications across other ERP and data management systems, further validating their impact on multi-platform data integration. Through continuous improvements, AI has the potential to transform data integration practices, ensuring seamless, error-free data flow in increasingly complex business environments.

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