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## Patent Search

Invention Title	MACHINE LEARNING BASED RISK MANAGEMENT OF CREDIT SALES IN SMALL AND MID-SIZE BUSINESS				
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**Abstract:**

The present invention introduces a novel system and method for machine learning based Risk Management of credit sales in small and mid-size businesses (SMBs). Leveraging advanced machine learning algorithms and data analytics, the system facilitates comprehensive risk assessment by analyzing transactional data, customer profiles, and external factors. Key components include a data acquisition module for collecting diverse data sources, a preprocessing module for data cleansing and feature extraction, a model module utilizing ensemble learning techniques, and an evaluation module for performance assessment. The system offers real-time decision support, seamless integration with existing workflows, and continuous model refinement to adapt to evolving market conditions. By optimizing credit risk management processes, the invention empowers SMBs to enhance financial stability and profitability in dynamic business environments.

**Complete Specification**

Description: The embodiments of the present invention generally relate to the field of financial technology (FinTech) and specifically relate to risk management in small and mid-size businesses (SMBs). More particularly, the invention involves the application of machine learning techniques for assessing and mitigating credit risk associated with sales transactions conducted on credit terms within SMBs. By leveraging advanced algorithms and data analytics, the invention aims to enhance the efficiency and accuracy of credit risk management processes, thereby improving the overall financial performance and stability of SMBs.

**BACKGROUND OF THE INVENTION**

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects of the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding of the reader with respect to the present disclosure, and not as admissions of prior art.

Small and mid-size businesses (SMBs) play a crucial role in the global economy, contributing significantly to employment generation and economic growth. One of the key challenges faced by SMBs is managing credit risk associated with sales transactions conducted on credit terms. Extending credit to customers is a common practice in business-to-business (B2B) and business-to-consumer (B2C) transactions, allowing customers to purchase goods or services with deferred payment obligations.

However, managing credit risk effectively is essential to avoid potential losses due to defaults or late payments. Traditional credit risk management methods, such as credit scoring and rule-based decision-making, often lack the sophistication and adaptability required to address the dynamic nature of credit risk in SMBs. These methods may

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