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Patent Search

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Abstract:

Our invention presents an Efficient Data Ingestion and Processing Framework for Real-Time Big Data Analytics in the Cloud, offering a modular architecture with optimal connectors, scalable pipelines, and a robust processing engine. This framework streamlines data ingestion from various sources, supports diverse data formats, and enables real-time analytics with minimal latency. It incorporates intelligent load balancing for resource optimization and a user-friendly interface for accessibility. Robust security and compliance capabilities protect sensitive data. Adaptable to multiple industries and aligned with cloud computing trends, it fosters data-driven innovation while adhering to computing principles for sustainability. By reducing resource costs and total ownership costs, this framework promises significant economic and environmental benefits.

Complete Specification

Description:The proposed system falls within the field of data engineering and cloud computing innovation. It addresses the crucial need for an efficient data ingestion and processing framework tailored specifically for real-time big data analytics in the cloud environment. This field is at the intersection of several cutting-edge technologies, including big data analytics, cloud computing, and real-time data processing.

The invention aims to revolutionize how organizations manage and harness the immense volumes of data generated in real-time, providing a robust framework to streamline the ingestion of data from various sources, process it rapidly, and deliver actionable insights. This innovation will contribute to advancements in data-driven decision-making, machine learning, and artificial intelligence applications by enabling businesses to make timely decisions based on real-time data streams.

Background of the invention:

In the modern era, data has become the lifeblood of businesses and organizations across the globe. The exponential growth in data generation, driven by the proliferation of digital devices, the internet of things (IoT), social media, and various other sources, has given rise to the concept of big data. Big data, characterized by its massive volume, velocity, and variety, has the potential to yield invaluable insights and drive strategic decision-making. However, harnessing the power of big data comes with its own set of challenges, particularly when it comes to real-time analysis in cloud environments.

Traditional data processing methods and infrastructure are ill-equipped to handle the demands of real-time big data analytics. The need for scalable, efficient, and cost-effective solutions has given rise to a new era of innovation in the field of data engineering and cloud computing. In this context, the proposed invention emerges as a response to these pressing challenges.

The Efficient Data Ingestion and Processing Framework for Real-Time Big Data Analytics in the Cloud is a groundbreaking concept that seeks to revolutionize how

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