Project Proposal: Intelligent Data Integration Framework

Project Name

Intelligent Data Integration Framework

Project Summary

The Intelligent Data Integration Framework aims to revolutionize data integration processes by deploying an AI-driven solution that automates schema matching, data transformation, and data cleansing. This initiative is designed to minimize manual data handling efforts and enhance data quality across disparate data sources.

Business Case / Problem Statement

In today's data-driven environment, organizations struggle with integrating data from various sources, each with unique schemas and formats. This process is typically labor-intensive, prone to errors, and requires significant human resources. The current manual integration methodologies are inefficient and cannot meet the dynamic demands of businesses seeking real-time data insights. Hence, there is a compelling need for an intelligent framework that simplifies and automates these tasks to enhance operational efficiency and data quality.

Expected Outcomes

- **Operational Improvements**: Reduction in manual data integration efforts by over 50%, leading to more efficient utilization of human resources.
- **Technical Improvements**: Enhanced data quality through automated detection and correction of anomalies, missing values, and duplicates, resulting in reliable datasets for analysis.
- **Monetary Value**: Projected cost savings of approximately $500,000 annually due to reduced manual processing and error correction efforts.
- **Efficiency Gains**: The introduction of a drag-and-drop interface for workflow management and real-time analytics is expected to decrease the time required for integration tasks by 60%.

Monetary Value

The monetary impact includes substantial cost savings, estimated at $500,000 annually, achieved through the reduction of manual data processing tasks and error correction. Additionally, improved data accuracy will drive better decision-making and potentially increase revenue by leveraging high-quality data for strategic initiatives.

Time Value

The framework is anticipated to deliver significant time savings by automating data integration processes, reducing the time spent on these tasks by approximately 60%. This efficiency gain translates into quicker

data availability for analysis and decision-making, ultimately accelerating business processes and responses to market changes.

Project Sponsor / Owner

The project is sponsored and overseen by the Team Leadership, with Stephanie Harris serving as the Director and Justin Lee as the Vice-Director. Their strategic vision and leadership will guide the project to successful implementation and operation.

Key Stakeholders

The key stakeholders encompass the Business Intelligence team, which plays a crucial role in the project's execution. The team includes:

- **Timothy Johnson**: Business Intelligence Lead
- **Cynthia Harris**: BI Analyst
- **Kathleen Stewart**: BI Analyst
- **Robert Stewart**: BI Analyst
- **Sarah Jones**: BI Analyst
- **Susan Moore**: BI Analyst
- **Linda Parker**: BI Analyst
- **Emily Collins**: BI Analyst
- **Jennifer Rogers**: BI Analyst
- **Rebecca Richardson**: BI Analyst

Each member contributes unique expertise to ensure the framework meets the organization's data integration needs effectively. Their involvement is critical in the design, implementation, and evaluation phases, ensuring the solution aligns with business requirements and goals.