TECH OFFER

AI-Powered Solution for Supplier Discovery & Audit Agent

KEY INFORMATION

TECHNOLOGY CATEGORY:

Logistics - Planning & Order Processing
Logistics - Delivery & Distribution

TECHNOLOGY READINESS LEVEL (TRL): **TRL7**
COUNTRY: **CANADA**
ID NUMBER: **TO175153**

OVERVIEW

In recent years, current geopolitical tensions and global events have disrupted global supply chains. Companies are now re-evaluating their sourcing strategies, like "China+1" in ASEAN counties, to diversify and strengthen resilience in their supply chain.

The company has launched an Artificial Intelligence (AI) based proprietary solution, comprising of an extensive supplier sourcing platform and a one-stop knowledge instructor for all supplier-related queries. The solution's strength lies in offering audited suppliers, backed by human verification, and contextualised insights for any supplier-specific query, ensuring a more comprehensive and reliable sourcing process. Through these, it enhances the resilience and operational flexibility of any core sourcing operations within enterprises.

This technology has been involved in several validation proof of concept (POC) projects across various global markets. The company is seeking collaboration partners, such as industrial players, who wishes to explore this supply chain solution for any industrial-specific sourcing hurdle within their respective market.

TECHNOLOGY FEATURES & SPECIFICATIONS

The advanced AI-based proprietary solution is designed to follow the "chain of thoughts" of an expert buyer, retrieving information from multiple data sources and making judgments/decisions in an automated workflow. This supplier chain technology enables users to have a competitive edge through:

- Being adaptable to different markets
- Listing of curated global suppliers based on any particular supply chain need across numerous industries
- Showcasing of verified suppliers and their respective certifications (e.g. ISO)

The specifications for these features are based on its AI-based solution:

- Large Language Model (LLM) to leverage for structured and unstructured raw data for data aggregation to execute data insights
- AI agent framework with integration of inputs from human expertise for value-add decision making
- Reinforced Learning from Human Feedback (RLHF) loop to refine process

POTENTIAL APPLICATIONS

Companies with a global supply chain can utilise this technology to enhance supply chain resilience and efficiency. Some examples are:

- Electronics Manufacturing: Optimizing supplier sourcing and ensuring the reliability of supply chains.
- Chemical Industry: Enhancing supplier verification and risk management.
- Mechanical Engineering: Streamlining the sourcing process and improving supplier evaluations.
- Aviation: Ensuring reliable and secure supply chains for mission-critical components.
- Renewable Energy: Navigating the nascent supply landscape for emerging technologies.

UNIQUE VALUE PROPOSITION

This technology offers a significant improvement over current state-of-the-art sourcing solutions by integrating advanced AI capabilities with a robust RLHF loop, ensuring the AI agents operate with expert-level judgment and decision-making. This unique approach combines aggregated data with human verification, providing a comprehensive and reliable solution for supplier sourcing.

This technology mirrors the workflow of a seasoned sourcing specialist that works alongside existing procurement processes, enhancing the accuracy and reliability of any sourcing decisions. The technology's ability to adapt to different markets and its applicability across various industries enable manufacturers seeking resilient and efficient supply chain solutions in a complex geopolitical landscape to thrive.