



CODECELL-CMPN,VESIT

SYRUS HACKATHON 2025

Category Code: C6

Problem Statement Title: Cross-Border Trade & International Finance

Team Name: CodeMongers

Institute Name: Vivekanand Education Society's Institute of Technology



Idea / Approach details (& implemented features)

Problem:

Global trade is slow, costly, and risky due to:

1. Manual invoice processing delays shipments.
2. Unclear tariffs & duties lead to unexpected costs.
3. No structured supplier risk assessment.

Our Approach: An AI-powered Trade Risk & Financing Profiler Automates product analysis, risk assessment, and supplier selection to streamline global trade.

1. **HS code extraction:** extracts hs code on basis of product name and category
 2. **Supplier Information:** Extracts Suppliers, their respective countries and product rate for requested product based on HS code
 3. **Tariff & Sanction:** Provides THE tariff rates and sanctions for the countries of retrieved suppliers
- Supplier Selection: Selection is done on the basis of tariff rates and sanctions

(implemented features)

KEY FEATURES

Business products
have purposeful goals.



Innovation (Showstopper)

Automated HS Code Extraction – Instead of manually determining the correct HS code for a product, the system extracts it based on product name and category, reducing errors and delays.

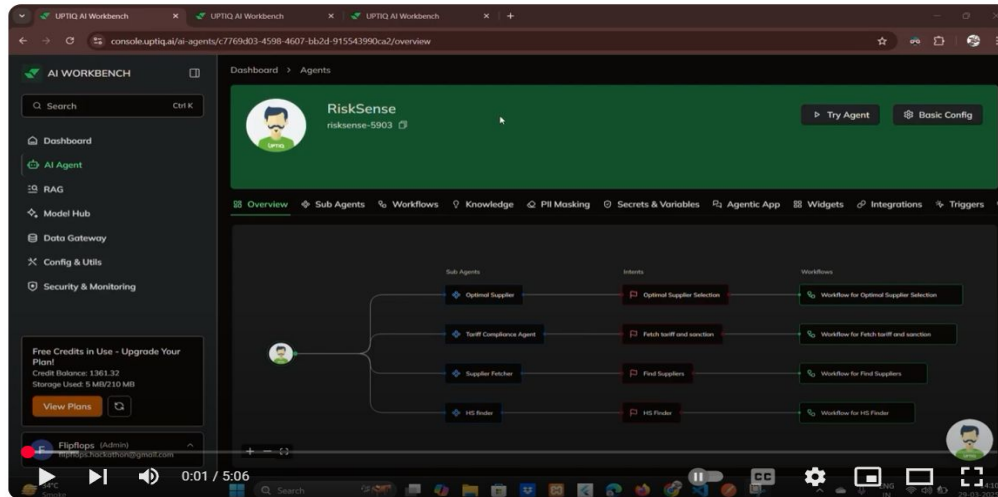
AI-Driven Supplier Selection – The system automatically identifies and ranks suppliers based on country, product rate, and compliance with regulations, making sourcing faster and more reliable.

Real-Time Tariff & Sanction Analysis – Unlike traditional methods that require manual lookup, the platform provides up-to-date tariff rates and sanctions for supplier countries, helping businesses make informed decisions.

End-to-End Trade Optimization – By integrating product analysis, risk assessment, and supplier selection into a single AI-driven solution, the system significantly enhances global trade efficiency.

Video Link

[Youtube link of project](#)



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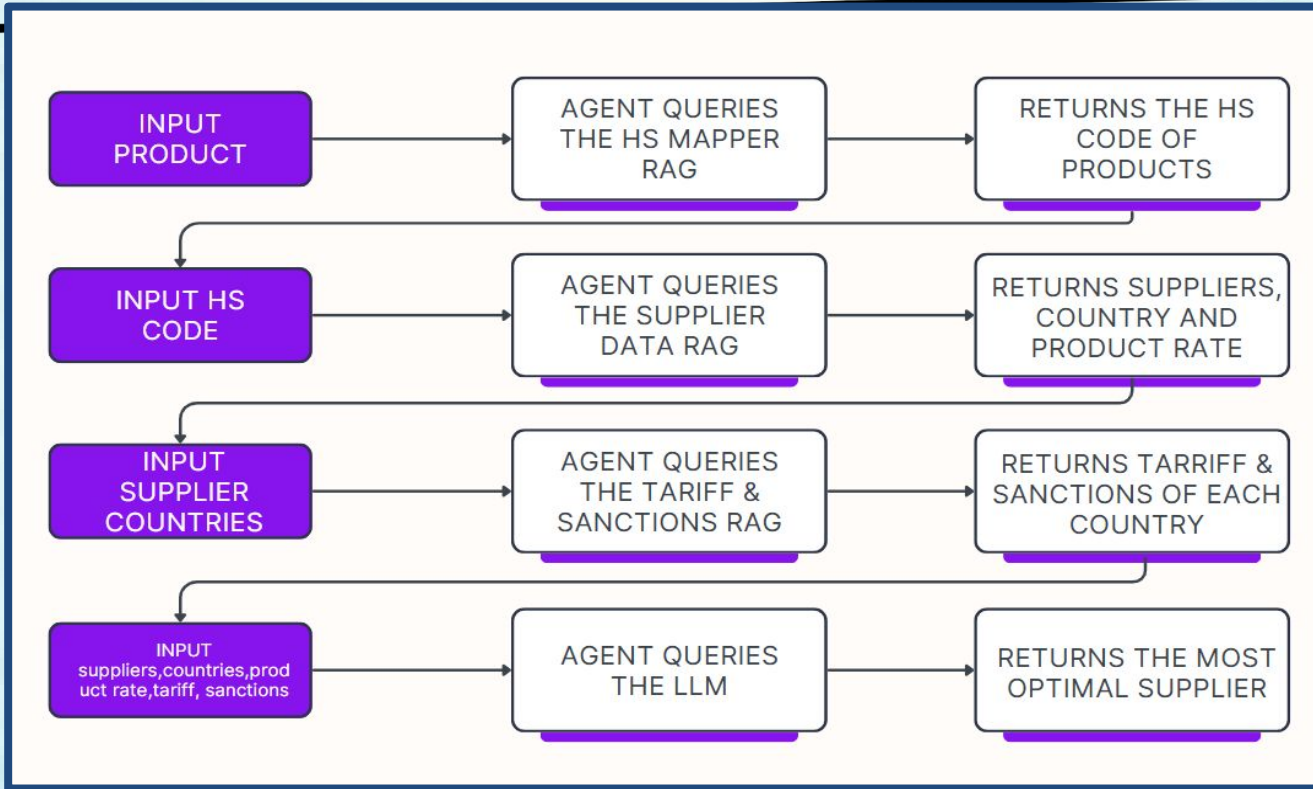
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Architecture



Future Objectives



Supplier Risk Scoring System – Develop a rating system that evaluates suppliers based on risk factors like profit margins, tariffs, and sanctions.

Profitability-Based Supplier Ranking – Optimize supplier selection by factoring in potential profit margins alongside tariffs and trade restrictions.

Advanced AI-Powered Risk Assessment – Enhance risk profiling by integrating real-time market data, geopolitical factors, and trade policies.

Integration with Trade Agents & Brokers – Connect businesses with trade agents for better negotiation and compliance management.

