



WHAT-IF-OPS

Empowering Supply Chain Decision making powered by Azure OpenAl



About What-If-Ops



What-If-Ops is a revolutionary solution designed to address the complexities and uncertainties within supply chain management. It leverages a unique amalgamation of Generative AI and Knowledge Graphs to assess various scenarios, generate impacts using natural language, and facilitate decision-making and validation for users.

KEY SOLUTION COMPONENTS

KNOWLEDGE GRAPH



Designing knowledge graph database incorporating all the complexities of the supply chain network

2 ANALYTICAL ENGINE



Prompt Engineering to give the right context to the LLM so that it creates cypher queries with the correct logic incorporating the constraints

3 INTERACTIVE UI



The output UI displays a comparative analysis and potential solutions in the graph



What-If-Ops Thought Process (What If Scenario)

Base Optimization

 Supply chain network analyst seeks to find an optimal options in various scenarios arising due to unforeseen reasons / availability of multiple options in the supply chain

2 Step Process

- Decomposes the user query into two scenarios – one with the constraints and the one without the constraints and its respective queries
- Performs logical reasoning and recommends a solution

3 Step Process

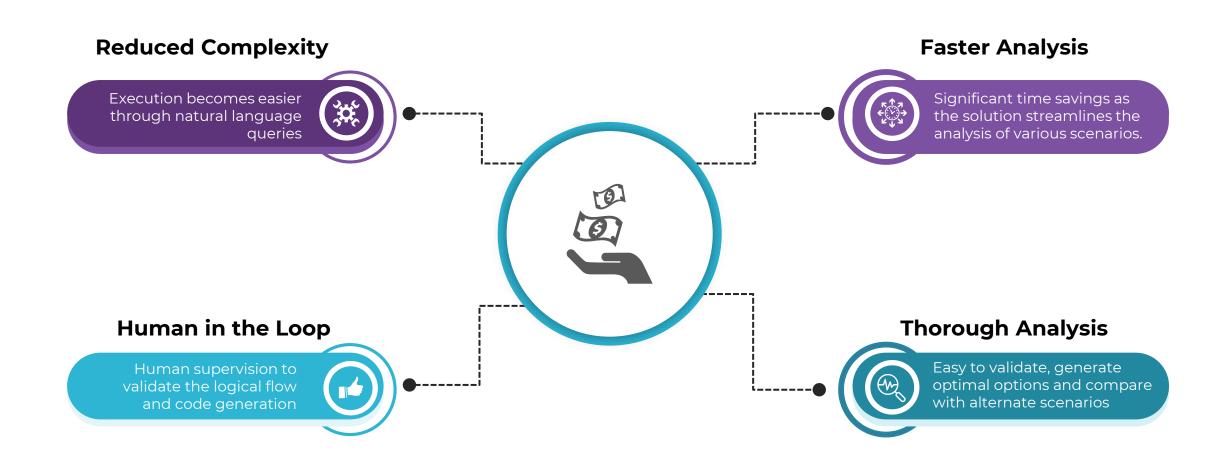
- Breaks down the user query into scenarios with and without the constraints
- Performs data extraction, reasoning and recommends a solution based on the retrieved data

Agent-based

- It breaks down the question that needs to be answered to obtain the complete response
- Uses thought process internally and improves the output iteratively

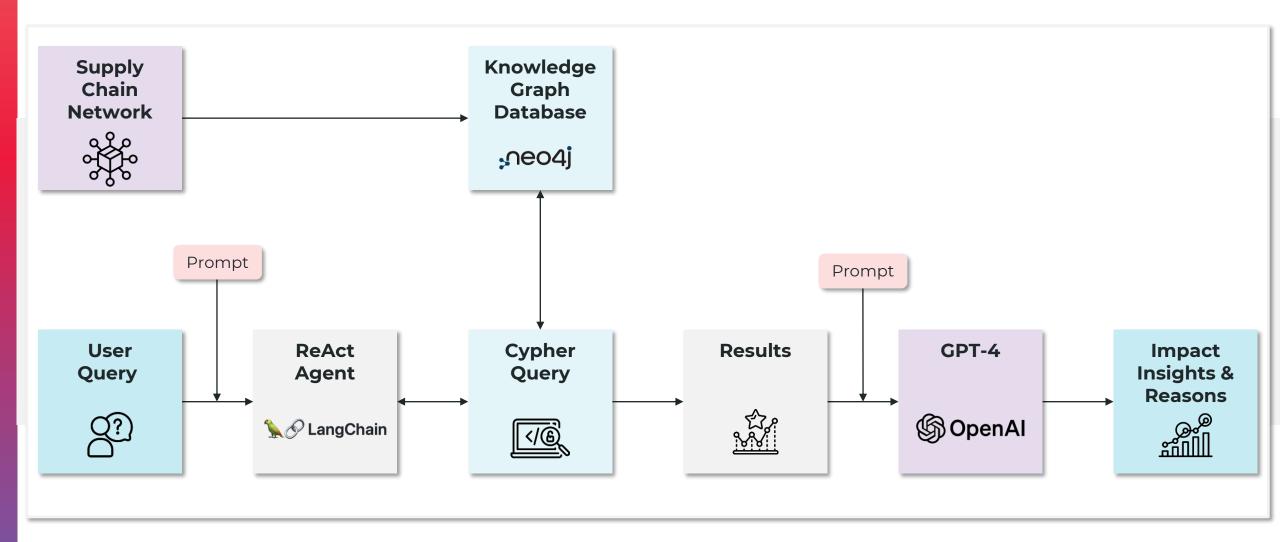


What-If-Ops Benefits





WhatIfOps Architecture







THANK YOU



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