

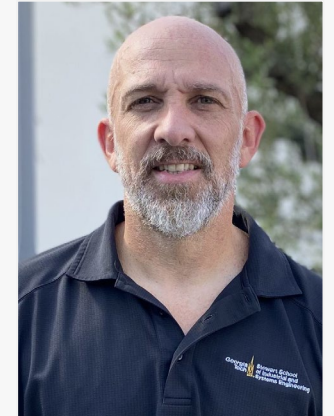
Generative AI for Supply Chain

LUNCH AND LEARN

Thursday, January 2, 2025 | 12pm ET



Chris Gaffney



Frederick Benaben

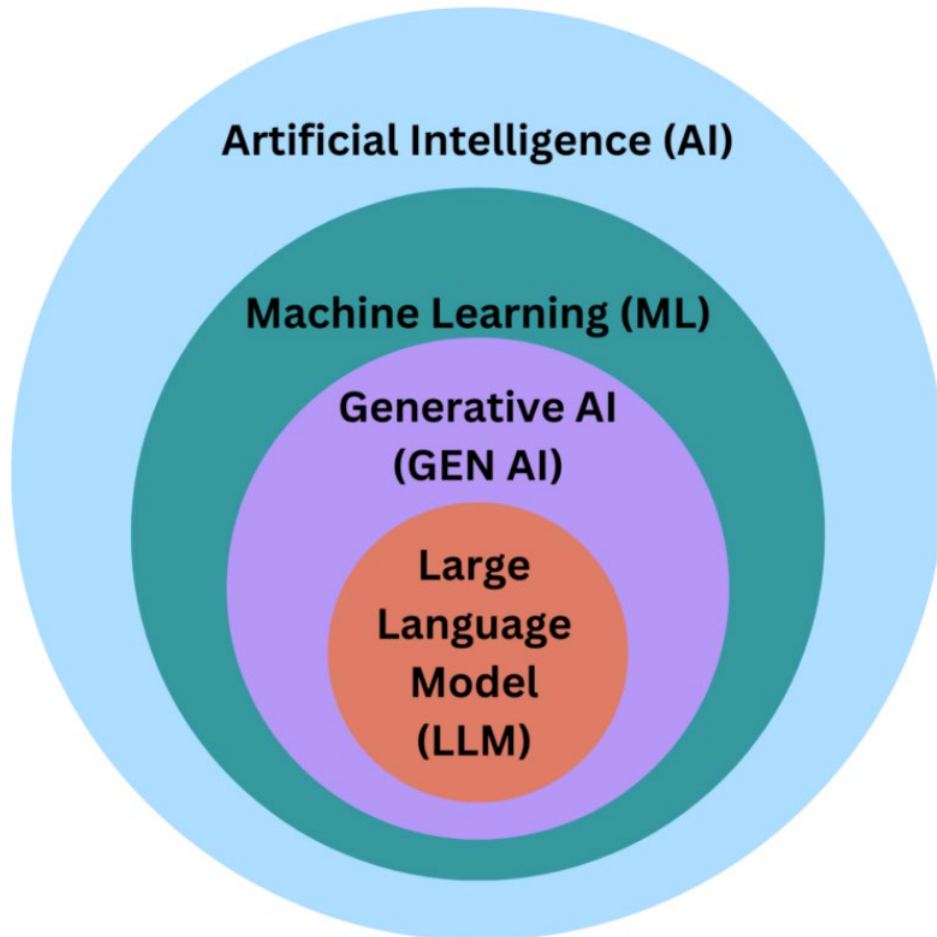
About our Related Course Series

scl.gatech.edu/gaiascp



Supply Chain and
Logistics Institute

What is Gen AI



- AI (Artificial Intelligence):** AI is the overarching field of computer systems designed to perform tasks that typically require human intelligence, such as decision-making, problem-solving, and pattern recognition.

- ML (Machine Learning):** Machine Learning is a subset of AI that enables systems to learn and improve from data without being explicitly programmed, focusing on finding patterns and making predictions.

- Generative AI:** Generative AI is a subset of AI that uses advanced machine learning to create new content like text, images, or music by learning patterns and structures from vast datasets.

- LLMs (Large Language Models):** Large Language Models are a type of Generative AI specifically designed to understand and generate human-like text, enabling natural language conversations and creative text generation.

Gen AI Time-Saving Strategies for Daily Use



Automated Summarization

Summarizing documents, emails, meeting transcripts, or articles.

Example: "Summarize this meeting transcript in bullet points and identify follow-up actions."



Research Assistance

Quickly gathering insights or explanations on specific topics.

Example: "Explain the latest trends in supply chain risk management."



Translation and Localization

Translating documents or emails into multiple languages.

Example: "Translate this supplier contract into Spanish, maintaining legal terminology."



Draft Creation

Writing emails, reports, presentations, or social media posts.

Example: "Write a professional email to a supplier requesting delivery updates for the next quarter."



Coding and Debugging Help

Writing scripts, debugging errors, or creating code snippets.

Example: "Write a Python script to automate inventory updates from an Excel file."



Meeting Preparation and Follow-Up

Preparing agendas, taking notes, or summarizing follow-ups.

Example: "Draft a follow-up email summarizing today's meeting and listing action items."



Brainstorming Ideas

Generating ideas for projects, problem-solving, or campaigns.

Example: "Brainstorm 10 strategies for reducing lead times in a global supply chain."



Task Automation with APIs

Automating repetitive workflows through APIs or tools like Zapier.

Example: "Create a Python script to pull daily reports from our CRM API and email them."



Competitive Intelligence

Monitoring competitors, industry trends, or news.

Example: "Summarize the key supply chain strategies of [Competitor Name] from their annual report."



Data Formatting and Transformation

Reformatting data, summarizing datasets, or cleaning up messy data.

Example: "Convert this dataset into a CSV format with headers."



Document and Presentation Preparation

Creating PowerPoint slides or project proposals.

Example: "Create a 5-slide PowerPoint outline on the benefits of AI in supply chain optimization."



Personal Productivity

Organizing to-do lists, prioritizing tasks, or tracking goals.

Example: "Organize these tasks by priority and suggest a timeline for completion."

ChatGPT, Claude, and Gemini Premium Versions Head-to-Head

Feature/Aspect	ChatGPT Plus	Claude Pro	Gemini Advanced
Developer	OpenAI	Anthropic	Google DeepMind
Primary Use Case	General-purpose AI assistant for content creation, coding assistance, and conversational tasks	Ethical AI interactions with a focus on safety and compliance	Real-time data retrieval and advanced search capabilities
Pricing	\$20/month	\$20/month	\$19.99/month
Information Access	Access to real-time data through web browsing capabilities	Limited to training data; does not have real-time data access	Real-time information retrieval, integrating with Google's search capabilities
Coding Assistance	Robust support, including code generation and debugging	Excels in code generation and debugging, particularly in front-end and visual design coding	Provides coding assistance, though may not be as advanced as ChatGPT
Image Generation	Capable of generating images based on text prompts	Does not support image generation	Supports image generation, leveraging Google's image processing technologies

Super Prompt: Use Multiples and ask them to improve the output of the other

How to Keep Your Data Safe on ChatGPT

Data Sharing

1. Go to your ChatGPT profile.
2. Access Settings.
3. Select Data Controls.
4. Toggle off 'Allow your content to be used to train our models.'

Data Security

1. Anonymize any personal or customer sensitive data
2. Remove personal details from resumes
3. Anonymize product or supplier data via a key

Policy

1. Comply with all organizational policies
2. Ask for permission

Addressing Security and Safety Concerns

Prohibition Is Not Sustainable

Instead of banning use, create a safe, guided framework.

Addressing Hallucinations

Pair AI outputs with verification processes.

Governance

Develop policies to ensure transparency and accountability.

Security Measures

Use tools with SOC 2 compliance, encryption, and secure APIs.

Education and Training

Ensure users understand limitations and responsible use.

Data Handling

Avoid entering sensitive or proprietary data; anonymize data if necessary.

Sandboxing

Test AI tools in isolated environments before enterprise deployment.

Generative AI in Supply Chain: Impact is Real and Will Grow Quickly

- **Speed Increases and Latency Reduces:** Cuts decision-making time from days to minutes, improving efficiency, resilience, and planning quality
- **Moves beyond intuition and manual analysis to data-driven decision-making**
- **Data Discovery and Insights:** Empowers planners to ask natural language questions for immediate, actionable insights
- **Explains trends, monitors changes, and tracks performance** (e.g., "Which factory was most productive last week?").

Real-World Use Cases

- Automated email reports on demand and supply drift
- Supplier Contract Compliance and Real Time Performance Trends
- Shipment Analyzer
- Risk and Resilience Assessment (FMEA)
- Facilities Layout Assessment
- Policy or Manual Summaries or Interpretation
- Project Management

Generative AI in Supply Chain : What's Next

Enhanced What-If Analysis

- Dynamic Scenario Planning: LLMs answer complex supply chain questions in real time.
 - Example: "What happens if factory F shuts down?" or "What is the cost impact of using a specific supplier?"
- Complements mathematical models to modify and analyze plans effectively.

Interactive Planning

- Real-Time Updates: Automatically adjusts plans for disruptions like weather events or supplier delays.
 - Identifies cost and profit impacts of changes, enabling faster decision-making.
- Future Potential: Integration of Commercial, Supply Chain, and Finance functions into closed-loop systems.
 - Facilitates end-to-end decision-making.

What You Can Apply Today

1. Start Small with LLM Tools

- Use off-the-shelf generative AI tools for data discovery and insights.
- Example: Automate trend analysis and reporting to reduce manual workload.

2. Upskill Your Team

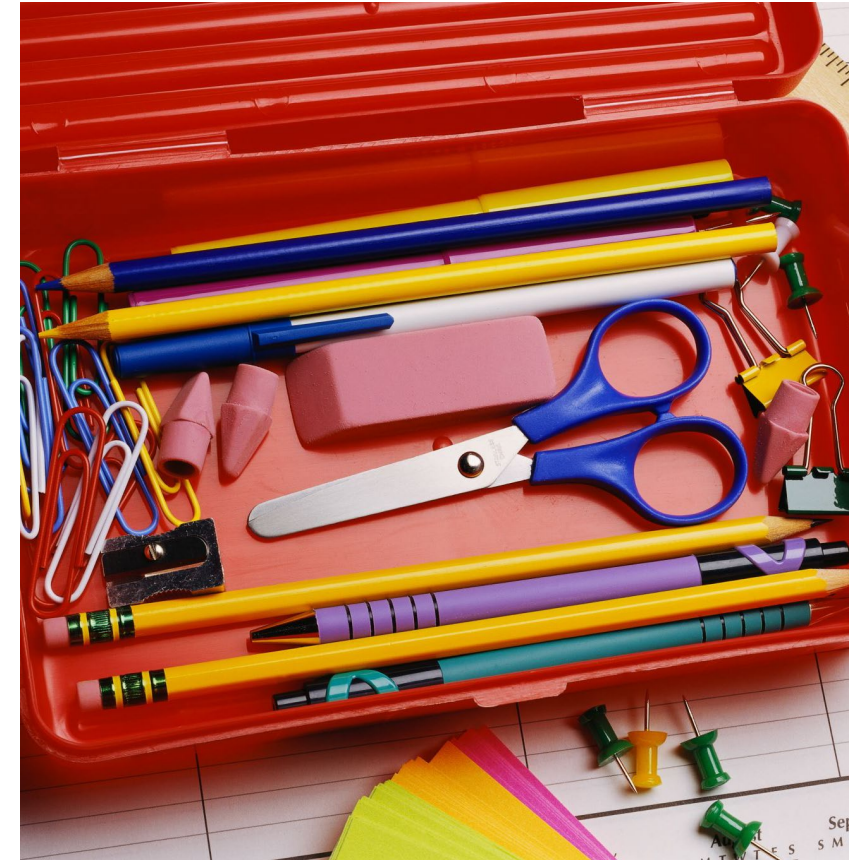
- Train planners to ask precise questions and understand AI-generated outputs.

3. Pilot What-If Scenarios

- Test LLM tools for specific scenarios, such as cost optimization or supply disruptions.

4. Integrate Incrementally

- Deploy LLM capabilities for common tasks like demand forecasting and contract analysis.



What You Can Apply Tomorrow

1. Build Collaborative Ecosystems

- Align Commercial, Supply Chain, and Finance teams to leverage AI-driven insights.

2. Develop AI-Ready Infrastructure

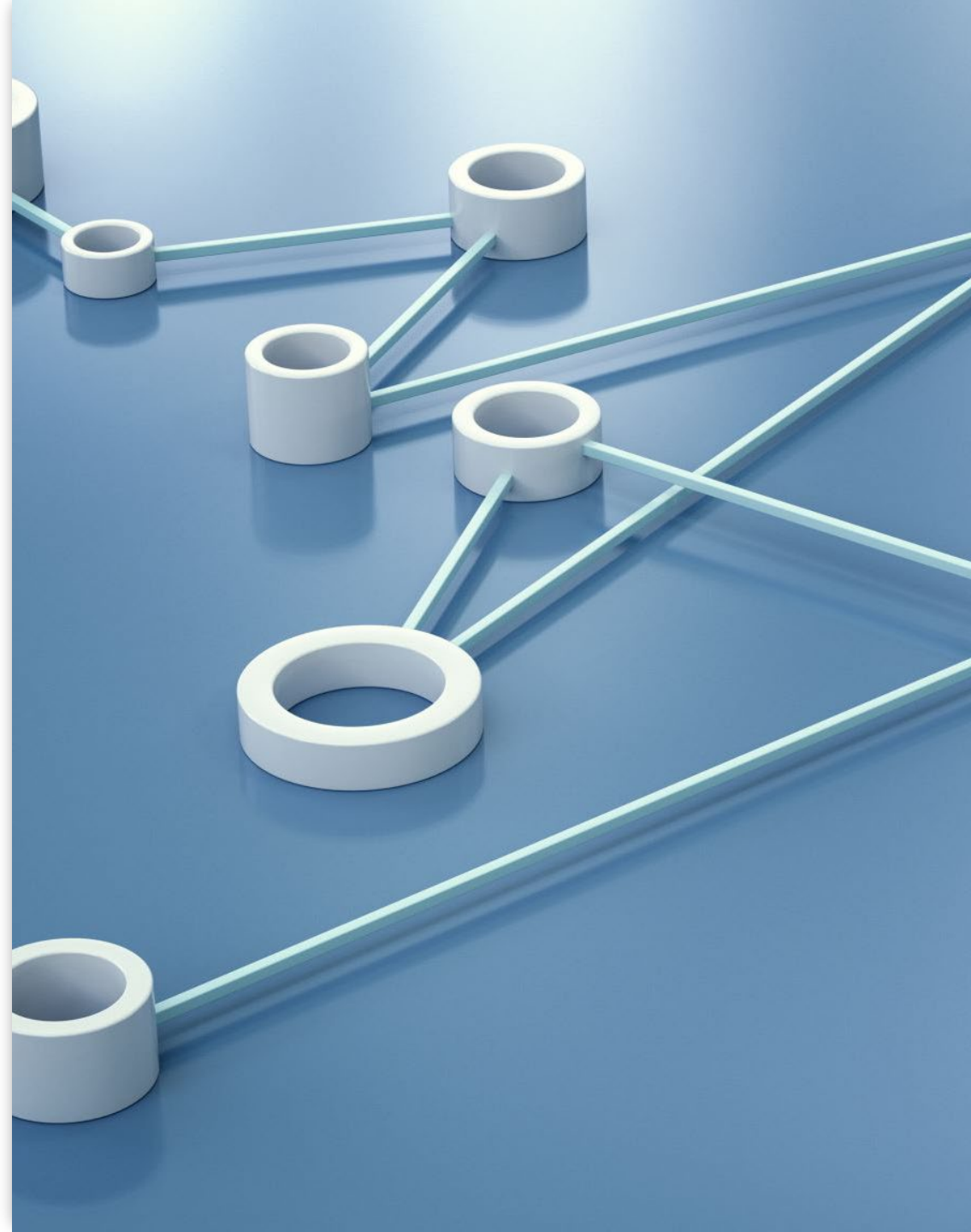
- Invest in integrated platforms that connect LLMs with supply chain tools.

3. Overcome Adoption Barriers

- Address verification challenges by adding domain-specific examples and fallback mechanisms.

4. Redefine Roles

- Shift planners' focus from repetitive tasks to value-added strategic activities.



General Guidelines on Prompting

Role and Persona

Specify the intended audience, tone, or role for the response.

Be specific and Use Clear Concise Language

Provide detailed instructions to get more accurate results and use precise and straightforward language in your prompts.

Contextual Information

Include relevant background information to guide the AI's response.

Actionable Requests

Frame your prompts as clear, actionable instructions.

Correct Grammar and Spelling

Ensure your prompts are free of errors for better understanding.

Open-ended vs. Closed-ended

Choose the appropriate question type based on your desired outcome.

Neutral Tone

Maintain an unbiased tone to avoid influencing the AI's response.

Focus on One Idea

Concentrate on a single concept per prompt for clarity.

Prompt Engineering in Gen AI for Supply Chain



Zero-Shot Prompt

Ask the AI to perform a task without providing any examples.

Example: What are the top supply chain challenges for e-commerce in 2024?



Few-Shot Prompt

Provide a few examples to guide the AI's response to similar tasks.

Example: List benefits of blockchain in supply chains. Example: 1. Increased transparency.



Thought Generation Prompt

Encourage AI to brainstorm or expand on ideas.



Decomposition Prompt

Break a complex problem into smaller, manageable parts.

Example: Analyze supply chain risk for electronics: 1. Material sourcing, 2. Manufacturing, 3. Distribution.



Ensembling Prompt

Combine multiple AI-generated responses to create a comprehensive output.

Example: Generate three approaches to improve last-mile delivery efficiency.



Self-Criticism Prompt

Ask the AI to evaluate and refine its own response.

Example: Draft a supply chain policy and critique its weaknesses.

Prompt Engineering Maturity

Prompt Type	Example Prompt	Expected Output
Zero-Shot Prompt	"Analyze supply chain risks for electronics."	General response: 'Electronics supply chains face risks such as delays, shortages, and rising costs.'
Few-Shot Prompt	"Analyze supply chain risks for electronics. Examples: Automotive - chip shortages; Agriculture - weather impacts."	More specific: 'Electronics face risks like chip shortages, reliance on East Asia, and rare-earth material issues.'
Thought Generation Prompt	"Brainstorm all possible risks for electronics: material sourcing, manufacturing, distribution."	Broad list: Rare-earth dependencies, shipping costs, cybersecurity risks, and volatile demand for new technology.
Decomposition Prompt	"Break risks into: 1. Material sourcing, 2. Manufacturing, 3. Distribution."	Organized analysis: Material sourcing - rare-earth metals; Manufacturing - labor shortages; Distribution - delays.
Ensembling Prompt	"Combine perspectives: geopolitical, operational, and customer demand trends."	Comprehensive view: Geopolitical - tariffs; Operational - capacity constraints; Demand trends - rapid obsolescence.
Self-Criticism Prompt	"Analyze risks and critique for missing risks or weaknesses."	Thoughtful feedback: 'Missed e-waste sustainability issues and supplier bankruptcies during economic downturns.'

Other Prompt Techniques

Prompt Technique	Purpose	Best For	Example	Limitation
Role Assignment Prompt	Assigns the AI a specific role to shape its perspective and response style.	Domain-specific expertise or guidance tailored to an audience.	You are a logistics manager. Explain how to optimize last-mile delivery.	Responses may misalign if the role is too vague.
Comparative Prompt	Asks the AI to compare or contrast different ideas, strategies, or approaches.	Evaluating options or weighing pros and cons.	Compare centralized and decentralized supply chain models.	Comparisons may lack depth without additional context or examples.
Chain-of-Thought Prompt	Encourages step-by-step reasoning for detailed and logical responses.	Complex questions where reasoning is crucial.	Explain step by step how AI can improve supply chain forecasting.	Responses may be verbose if not guided effectively.
Scenario-Based Prompt	Frames the question as a specific scenario or hypothetical situation.	Exploring practical applications or preparing for real-world challenges.	You are managing a warehouse with labor shortages. What steps would you take?	May require additional clarification for nuanced scenarios.

Other Prompt Techniques

Prompt Technique	Purpose	Best For	Example	Limitation
Validation Prompt	Asks the AI to validate or critique an existing idea or solution.	Verifying strategies, ensuring completeness, or identifying flaws.	Here's my supply chain risk plan. What weaknesses do you see?	Effectiveness depends on the quality of the input provided.
Iterative Prompt	Builds on a previous response to refine or expand the output.	Progressive development of complex ideas or plans.	Expand on your response about reducing inventory costs with examples.	Needs clear direction to avoid redundant answers.
Formatting Prompt	Guides the AI to present its response in a specific format like bullet points or tables.	Creating organized, presentation-ready outputs.	Summarize the top 5 supply chain challenges in a bulleted list.	Focuses more on format than content depth.
Counterfactual Prompt	Explores 'what if' scenarios to analyze alternative outcomes or strategies.	Risk analysis or contingency planning.	What if a key supplier fails? What steps should I take to mitigate the impact?	Responses can be speculative and may require real-world validation.

Effective vs. Ineffective Prompts for LLMs



Prompts That Work Well

- Well-defined tasks: Summarizing, drafting emails, brainstorming ideas
- Information retrieval: Asking for structured knowledge or examples
- Data transformation: Converting formats, generating code snippets



Prompts That Don't Work Well

- Ambiguous requests: Vague or multi-layered questions
- Overly technical tasks: Complex calculations or precise predictions
- Tasks requiring real-time data or specific proprietary knowledge



Best Practices

- Be clear and specific
- Provide context or examples to guide the model
- Break down complex requests into smaller, manageable parts

The Line Between Individual and Enterprise Gen AI



Individual Gen AI

- Quick productivity tools
- Public data
- Minimal security



Enterprise Gen AI

- Integrated systems
- Proprietary data
- Robust governance



Future Trends

Hybrid tools blending individual and enterprise capabilities

Individual

Enterprise!



• Invariant components & preferences

• Adaptive integration for utilization

• Get Enclosures
Conductions of the World

• Deffical entowered AI

• Entervisal & tecning

• AI powerise
Congate Prograse Letention

Individual AI – A few examples

1 Risk Identification

Obviously: We can ask that question directly to any GenAI free tool.

What are the risks for a pharmaceutical supply chain with suppliers in France, Italy, Sweden, Spain and North Africa, and customers mainly in Europe and Asia?

A pharmaceutical supply chain with suppliers located in France, Italy, Sweden, Spain, and North Africa, and customers primarily in Europe and Asia, may face several risks:

- Regulatory Compliance:** Pharmaceutical companies must comply with rigorous regulations in both European and Asian markets. Differences in regulatory standards, approval processes, and product registration can complicate market entry and ongoing compliance.
- Supply Chain Disruptions:** Political instability, economic changes, or natural disasters in supplier countries, particularly in North Africa, can disrupt the supply chain, affecting the availability of raw materials and finished products.
- Quality Assurance:** Ensuring consistent quality across diverse suppliers is essential in the pharmaceutical industry. Variability in manufacturing practices or regulatory adherence can lead to quality issues or product recalls.
- Logistical and Transportation Challenges:** Transporting pharmaceutical products internationally can be complex due to varying customs regulations, transportation delays, or logistical challenges, especially when products are temperature-sensitive.
- Currency Fluctuations:** Operating across different Eurozone and non-Eurozone countries exposes the supply chain to currency exchange risks, which can impact pricing and profitability.
- Market Competition and Saturation:** The pharmaceutical market is competitive, especially in Europe and Asia. Pricing pressures and the need for differentiation can challenge market positioning.
- Intellectual Property Risks:** Considering the global nature of the pharmaceutical industry, protecting intellectual property rights can pose challenges, particularly when engaging with suppliers in various jurisdictions.
- Evolving Consumer Expectations:** Shifts toward personalized medicine, biopharmaceuticals, and sustainable practices may require ongoing adaptation in product offerings and supply chain strategies.
- Health and Safety Liability:** Pharmaceuticals are subject to rigorous scrutiny regarding safety and efficacy. Any incidents related to adverse effects, recalls, or regulatory actions can impact reputation and financial stability.
- Emerging Global Risks:** Events such as pandemics, geopolitical tensions, or trade disputes can significantly impact supply chains, leading to sudden shortages or increased costs.

What are the main risks for a company selling baby food mainly in the USA and Canada, with a supply chain mainly sourced from South and Central American countries?

A company selling baby food in the USA and Canada, with a supply chain sourced primarily from South and Central America, may face several key risks:

- Regulatory Compliance:** Both the USA and Canada have stringent regulations regarding food safety, labeling, and marketing, especially for baby food. Compliance with these regulations is critical and can be a significant risk if not properly managed.
- Supply Chain Disruptions:** Relying on suppliers from South and Central America exposes the company to risks such as political instability, natural disasters, and logistical challenges (e.g., transportation strikes or port closures) that can disrupt the supply chain.
- Quality Assurance:** Ensuring the quality and safety of ingredients sourced from different regions can be challenging. There may be variability in production standards, leading to potential safety issues or product recalls.
- Cultural Preferences:** Different regions may have varying cultural tastes and preferences. The company must ensure that its products are appealing to North American consumers while considering the sourcing regions' practices.
- Currency Fluctuations:** Operating internationally exposes the company to exchange rate risks, which can affect costs and profitability when converting currencies.
- Market Competition:** The baby food market is competitive, with established brands and alternative products (e.g., organic, homemade). The company must differentiate itself to capture market share.
- Consumer Trends:** Shifts in consumer preferences toward organic, non-GMO, or plant-based options can impact demand. The company needs to stay agile in adapting its product line to meet these trends.
- Health and Safety Concerns:** Any incidents related to allergens, contamination, or recalls can severely impact brand reputation and lead to financial losses.
- Sustainability Practices:** There is increasing consumer demand for sustainable practices in sourcing and packaging. Failure to adopt these practices may deter environmentally conscious consumers.

Individual AI – A few examples

2 Business Expertise

Level 1: Basic approach: responses based on the data used to train LLM

I would like to buy a new server for my research team (I am a Professor in a public University in Georgia, USA), could you help me with the rules and steps of the call for tenders process?

Here's a general overview of the rules and steps for a **call for tenders (procurement process)** for purchasing a server in a **public university in Georgia, USA**. Public universities are typically required to follow federal and state procurement laws, as well as institutional policies.

1. Understand the Procurement Rules

- **State and Institutional Guidelines:** In Georgia, public universities often follow the **Georgia Procurement Manual (GPM)** and their own internal procurement policies.
- **Federal Rules (if applicable):** If the purchase involves federal funds, you must comply with **Federal Uniform Guidance** (2 CFR § 200) for procurement.
- **Thresholds:** Small purchases below a threshold (e.g., \$25,000 in Georgia) may not require a formal tender. Verify with your university's procurement office.
- **Bid Requirements:** Purchases above a certain amount often require formal **Request for Proposal (RFP)** or **Invitation to Bid (ITB)** processes.

2. Steps of the Call for Tenders Process

Step 1: Define Your Needs

- **Technical Specifications:** Clearly define the server requirements (e.g., CPU, RAM, storage, network capabilities, scalability, power consumption).
- **Purpose:** Describe the research team's needs (e.g., data processing, AI modeling, computational tasks).
- **Budget:** Determine the maximum budget for the purchase.

Step 2: Consult the Procurement Office

- Your university likely has a **procurement office** or **purchasing department**. Contact them to ensure compliance with all regulations and get guidance on the process.

Step 3: Prepare the Tender Document

- **Scope of Work (SOW):** Clearly outline what is expected, including server delivery, installation, and support services.
- **Eligibility Criteria:** Specify qualifications for vendors (e.g., experience, certifications).
- **Evaluation Criteria:** Define how bids will be assessed (e.g., cost, technical compliance, service guarantees).
- **Timeline:** Include submission deadlines, evaluation periods, and contract award dates.

Step 4: Advertise the Tender

- Public tenders must be advertised in compliance with state law. In Georgia, you can use platforms like:
 - **Georgia Procurement Registry (GPR)**
 - Your university's procurement portal
- Provide all relevant information (e.g., tender documents, deadlines, and contact details for questions).

Step 5: Vendor Submission

- Vendors submit their proposals or bids within the specified timeline.
- Ensure a fair and transparent process for accepting and logging bids.

Step 6: Evaluate Proposals

- Form a **bid evaluation committee** (may include technical and administrative staff).
- Assess bids based on the predefined criteria (e.g., technical fit, cost, after-sales service).

Step 7: Award the Contract

- Notify the winning vendor and issue a **Notice of Award**.
- Sign a contract detailing the terms, including warranties, delivery timelines, and payment schedules.

Step 8: Monitor Delivery and Performance

- Ensure the server meets specifications upon delivery.
- Confirm installation and functionality before releasing final payment.

3. Key Considerations

- **Sole Source Justification:** If you have a preferred vendor due to specific technical requirements, you may need to justify a **sole source procurement** (check institutional rules for this exception).
- **Sustainability:** Include energy-efficient and sustainable criteria in your server specifications.
- **IT Approval:** Some universities require the IT department to review and approve equipment purchases for compatibility with institutional systems.

4. Where to Get Help

- **University Procurement Office:** They will provide detailed instructions and may handle parts of the process.
- **Georgia State Department of Administrative Services (DOAS):** Provides resources and manages public procurement in Georgia.
- **Grants Office:** If using grant funds, ensure compliance with grant-specific rules.

Enterprise AI – A few examples

1 Risk Identification

FREDERICK
BENABEN

Enter your situation

Enter your situation

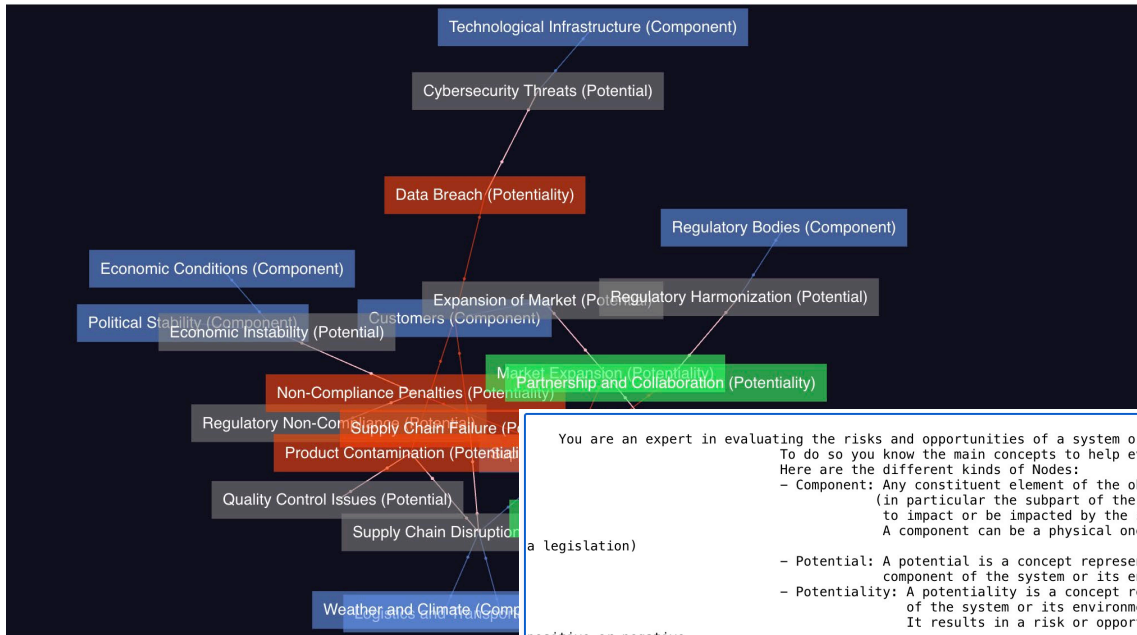
ments)
ons and
ess
).

Enterprise AI – A few examples

1 Risk Identification

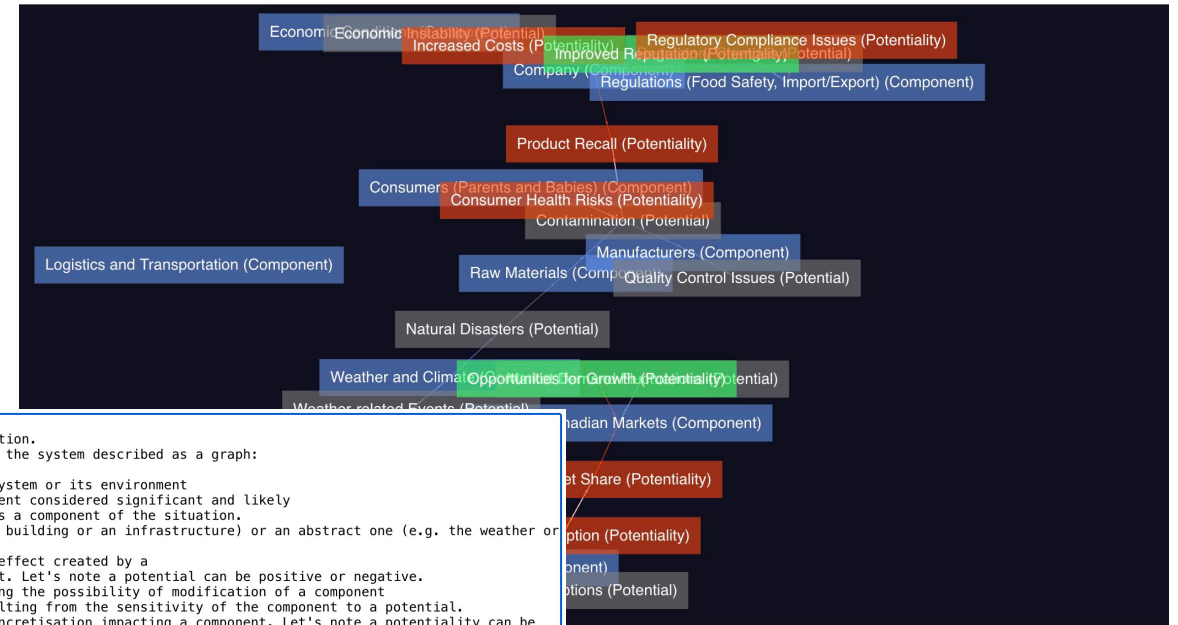
Enter your situation

a pharmaceutical supply chain with suppliers in France, Italy, Sweden, Spain and North Africa, and customers mainly in Europe and Asia



Enter your situation

a company selling baby food mainly in the USA and Canada, with a supply chain mainly sourced from South and Central American countries



You are an expert in evaluating the risks and opportunities of a system or a situation.
To do so you know the main concepts to help evaluating the system described as a graph:
Here are the different kinds of Nodes:
- Component: Any constituent element of the observed system or its environment (in particular the subpart of the environment considered significant and likely to impact or be impacted by the system) is a component of the situation. A component can be a physical one (e.g. a building or an infrastructure) or an abstract one (e.g. the weather or a legislation)
- Potential: A potential is a concept representing an effect created by a component of the system or its environment. Let's note a potential can be positive or negative.
- Potentiality: A potentiality is a concept representing the possibility of modification of a component of the system or its environment, resulting from the sensitivity of the component to a potential. It results in a risk or opportunity concretisation impacting a component. Let's note a potentiality can be positive or negative.
Here are the different kinds of Links:
- AggregationLink: Composition link between a Component and its sub-component
- ExistenceConditionLink: Link from a component to a potential generated by this component
- SensitivityConditionLink: Link from a Potential to a Component sensitive to this Potential
- GenerateConditionLink: Link from a Potential (danger or favorability) to a Potentiality (risk or opportunity)
- ImpactLink: Link from a Potentiality to the impacted Component
Here are 2 examples illustrating the previous concepts:
1st -----
SITUATION: A barbecue party in the backyard with a barbecue, kids playing around and people enjoying a drink
COMPONENTS: barbecue, kids, people, the weather
POTENTIALS: high temperature (from the barbecue), rain (from the weather), immersion (from the swimming pool)
POTENTIALITIES: skin burn (on a kid component from high temperature potential), disappointment (on people component from rain potential), entertainment by swimming (immersion), good dishes cooked with the barbecue (thanks to high temperature barbecue)

2nd -----
SITUATION: A factory producing skateboards through logistics chains of wood processing, rubber, cutting, lacquering. This American factory uses Mexican, Chinese and American partners.
COMPONENTS: factory, supply chains, stakeholders, machines, workers
POTENTIALS: machine overhead, worker tired, bad weather, bad traffic, factory balance
POTENTIALITIES: broken machine, worker injury, disruption in the supply chain, raise of shoes demand thanks to bad weather, profits selling shoes

Enterprise AI – A few examples



documents)

tions and

process

...).

Enterprise AI – A few examples



Roadmap for SC GenAI

1 Main trends

Trend 1 - Specialization: Various specialized AI Agent for different purpose

Trend 2 - Localization: Local AI, On-device AI, On cloud AI

Trend 3 - Interaction: Prompt, Speech to text to speech, immersive interactions...



2 Individual vs Industrial GenAI

NOW NEXT



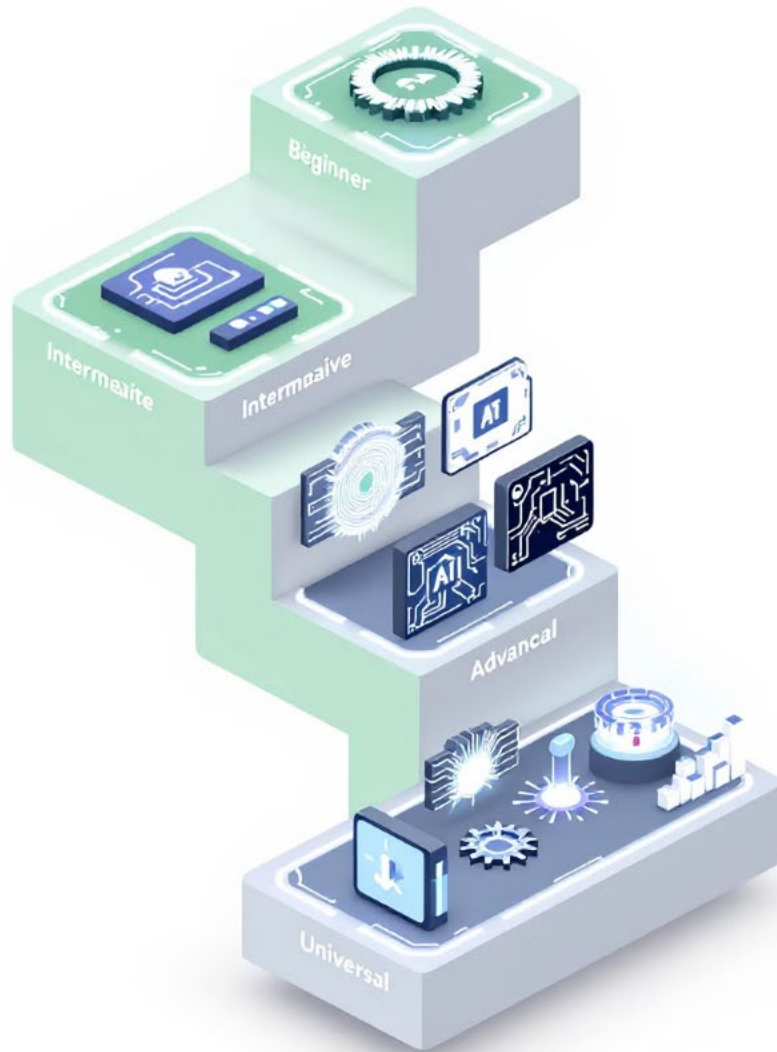
Generative AI Roadmap for Supply Chain Applications

Step	Action
1. Define Clear Objectives and KPIs	<ul style="list-style-type: none">- Align goals: Improve demand forecasting, automate workflows.- ROI Metrics: Cost reduction, inventory turnover, delivery times.
2. Assess Current Landscape	<ul style="list-style-type: none">- Internal: Evaluate processes, data, and AI readiness.- External: Analyze trends, regulations, and competition.
3. Identify High-Impact Use Cases	<ul style="list-style-type: none">- Prioritize: Rank opportunities by ROI.- Feasibility: Assess data needs and integration challenges.
4. Develop a Phased Roadmap	<ul style="list-style-type: none">- Short-Term: Pilot low-risk applications (e.g., invoice automation).- Long-Term: Expand to integrated solutions (e.g., visibility).
5. Build or Buy Decision	<ul style="list-style-type: none">- In-House: Tailor solutions internally if expertise exists.- Vendors: Evaluate scalable, customizable options.
6. Implementation and Integration	<ul style="list-style-type: none">- Data: Prepare clean supply chain data.- Deploy: Integrate models into ERP/TMS systems.- Workflow: Embed solutions seamlessly.
7. Continuous Monitoring and Improvement	<ul style="list-style-type: none">- Performance: Track using KPIs.- Feedback: Ensure ethical practices and transparency.
8. Foster Collaboration and Upskilling	<ul style="list-style-type: none">- Teams: Encourage cross-functional collaboration.- Training: Upskill employees on GenAI tools.
9. Expand and Scale Use Cases	<ul style="list-style-type: none">- Scale validated solutions across supply chain functions.

Development Planning for Supply Chain Professionals in the Era of Gen AI

Key Action	Context
Understand and Apply Gen AI Technology	<ul style="list-style-type: none">- Gain foundational knowledge of GenAI capabilities.- Explore industry-specific applications to solve supply chain challenges.
Leverage GenAI to Enhance Communication	<ul style="list-style-type: none">- Use AI tools for drafting, summarizing, and automating routine tasks.- Focus on using saved time for more strategic discussions.
Balance GenAI Skills with Soft Skills	<ul style="list-style-type: none">- Develop skills like negotiation, leadership, and emotional intelligence.- Combine AI-driven insights with human-centric decision-making.
Commit to Continuous Learning and Collaboration	<ul style="list-style-type: none">- Participate in GenAI training and cross-functional workshops.- Foster a mindset of innovation and adaptability.

Gen AI Maturity Goals for 2025



Beginners

- Start with pre-built tools like ChatGPT or Bard for simple tasks.
- Focus on learning prompt techniques through examples and tutorials.

Intermediate Users

- Identify specific workflows for AI augmentation (e.g., demand planning).
- Use fine-tuning options for domain-specific needs.

Advanced Users

- Build custom models, leverage APIs, and explore multi-agent systems.
- Integrate Gen AI into enterprise workflows and create scalable solutions.

Universal Advice

- Align goals with industry advancements and establish measurable success metrics.

Handy GPTs

- [ChatGPT - Convert Anything](#)
- [ChatGPT - Video Summarizer](#)    
- [Gammas – Gamma](#)
- [ChatGPT - The Supply Chain Analyst](#)
- [Top 50 Most Popular GPTs by Usage \(updated weekly\)](#)

Upcoming NextGen Courses

Immersive Performance Management for Decision-Making

March 3, 2025 - March 5, 2025 | Georgia Tech Global Learning Center

Generative AI Application for Supply Chain Professionals

March 26, 2025 - March 28, 2025 | Georgia Tech Global Learning Center/
Virtual (Instructor-led)

Generative AI Application for Supply Chain Professionals

October 6, 2025 - October 8, 2025 | Virtual (Instructor-led) / Georgia Tech
Savannah Campus

Upcoming SCL Lunch and Learn Opportunities

Mastering Strategic Sourcing: Balancing Cost, Quality, and Risk

w/ G'Sean Williams

Thursday, February 6th | 12-1pm ET | Zoom Registration Link



scl.gatech.edu/feb25-Intl



**Supply Chain and
Logistics Institute**

www.scl.gatech.edu

AI Institute for Advances in Optimization (AI4OPT) is a National Artificial Intelligence (AI) Research Institute funded by the National Science Foundation (NSF) and Intel and led by Georgia Tech.



AI4OPT fuses AI and optimization, drawing inspiration from largescale societal challenges in end-use cases in supply chains, energy systems, chip design, manufacturing, and sustainable food systems. AI4OPT also applies its "teaching the teachers" philosophy to provide longitudinal educational pathways in AI for engineering.



The Institute also creates education and workforce programs. Targeting historically black high schools and colleges in Georgia and Hispanic-serving institutions in California, AI4OPT strives to narrow job opportunity gaps.

Forging partnerships with national labs and industries, AI4OPT fosters an inclusive community emphasizing social mobility and the societal impact of AI technologies.



is an empowering platform for AI at Georgia Tech

... dedicated to advancing artificial intelligence research and field deployment through innovation, collaboration, industry partnerships and workforce development to transform scientific breakthroughs into societal impact.

AI Research

- Areas of excellence
- Critical mass
- Willing to engage

AI Industry

- High Value Projects
 - long-term vision with short term ROI
- Joint AI research lab
 - project managers
 - research faculty
 - organized by business sectors

AI Engineering

- Technology to Market
 - Pilots, MVPs, Entrepreneurship
- Engineering projects
 - end-to-end AI pipelines,
- Case studies
 - What AI can do for an organization

AI Workforce

- Executive training
 - What AI can do
- Managers
 - How to deploy AI
- Professional
 - Hands-on training
- Legislators
 - Policies, regulations

- *USNews* Ranks Georgia Tech in the Top 5 for *Best Artificial Intelligence Programs*
- Over 500 Researchers and 500 Students are engaged in AI studies at Georgia Tech
- Georgia Tech is the largest producer of AI talent in the US providing 3.2% of all current AI talent according to *Business Journals*