

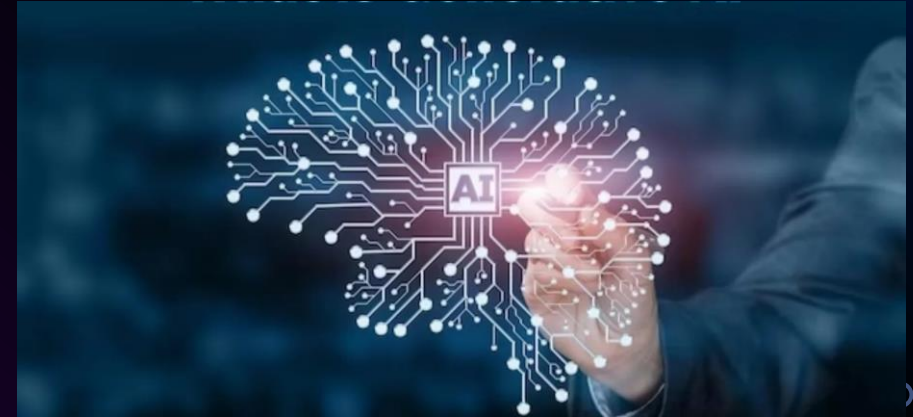
# GENERATIVE AI USECASES

PRESENTED BY  
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# GENERATIVE AI

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**GenAI**, is a branch of artificial intelligence focused on creating new content such as text, images, videos, music, and more. For instance, it can generate realistic images, write essays, or compose music based on user prompts.



# GENERATIVE AI APPLICATIONS



## USECASE 1:

## GEN AI SAP COPILOT

### FEATURES:

1. Chat Copilot
2. URL Based Search
3. KPI Dashboard

 Choose Module

 Chat Copilot 

 Chat Copilot

 KPI Dashboard

 Chat with URL

# Project Objective

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To develop a **GenAI-powered Copilot** that:


- Answers natural language queries related to SAP data
- Visualizes business KPIs in real-time
- Automates routine workflows
- Processes URLs & documents for intelligent analysis
- Personalizes the user experience based on roles and language

# TECH STACK

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Layer	Tools/Technologies
Frontend	Streamlit
AI/NLP	OpenAI GPT (GPT-4o)
Deployment	AWS EC2, AWS S3
Auth (optional)	Streamlit-authenticator / OAuth
NLP Support	Tesseract, LangChain (optional)

# HOME PAGE

 **SAP GenAI Chat Copilot** Deploy

Ask a question:

How LeverX addressed challenges with SAP BTP

Press Enter to apply

Send

Answer:

LeverX is a global technology consultancy well-versed in SAP solutions, including **SAP Business Technology Platform (SAP BTP)**. Over the years, LeverX has addressed various challenges when implementing and optimizing SAP BTP for its clients. Here's a summary of how LeverX typically tackles these challenges, based on industry practices, public case studies, and the company's solution approach:

### 1. Integration Complexity

**Challenge:** Integrating SAP BTP with diverse on-premise and cloud applications can be intricate, especially across hybrid landscapes.

**LeverX Approach:**

- **Integration Suite Utilization:** LeverX leverages SAP Integration Suite within BTP for both process and data integration.
- **Pre-Built Connectors:** They utilize pre-configured connectors for common SAP and third-party systems to accelerate deployment.
- **Custom Middleware Development:** When needed, LeverX develops custom adapters and middleware APIs, ensuring seamless connectivity.
- **Proven Methodologies:** Employing SAP-recommended best practices and their internal accelerators/GFDS (Global Fast Deployment Solutions).

### 2. Security and Compliance

**Challenge:** Ensuring data security, identity management, and compliance with regulations when deploying BTP apps and services.

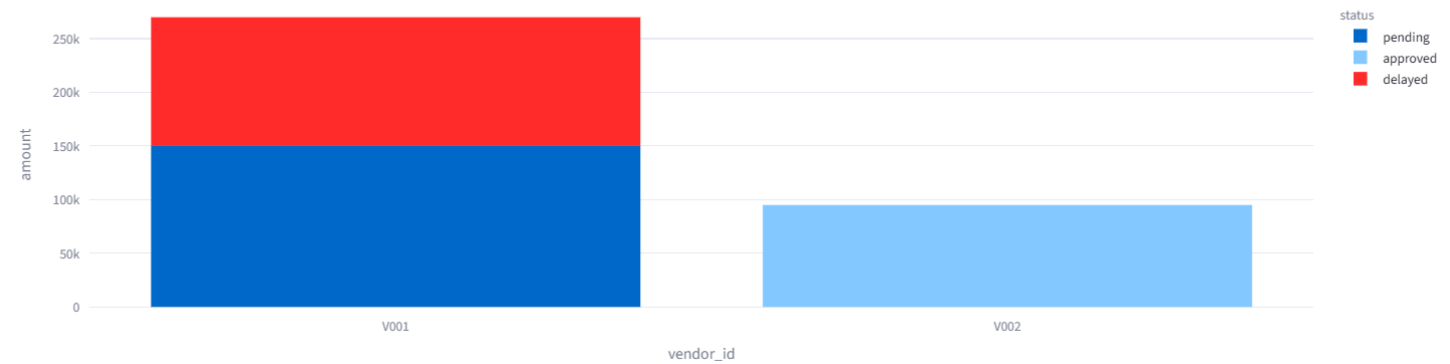
**LeverX Approach:**

# KPI DASHBOARD

## Purchase Orders


	po_id	vendor_id	amount	status	date
0	PO001	V001	150000	pending	2025-05-01
1	PO002	V002	95000	approved	2025-04-12
2	PO003	V001	120000	delayed	2025-03-28

## Vendor-wise PO Amount






# URL BASED RETRIEVAL

 **Chat with URL** Deploy

Enter a URL:

<https://leverx.com/newsroom/use-cases-and-best-practices-in-sap-btp-application-development>

Fetch

 Webpage Context (read-only)

Notifications SAP stands for Systems, Applications, and Products in Data Processing. It's a German multinational software corporation that provides enterprise resource planning (ERP) software to manage business operations and customer relations. SAP software helps companies manage their financials, logistics, supply chain, human resources, and other business functions. The SAP ERP system integrates all data and processes of an organization into a unified system. SAP software is known for its ability to streamline and centralize various business functions, enabling companies to enhance efficiency, transparency, and decision-making. How Does SAP Work? SAP (Systems, Applications, and Products) works in the workplace as an integrated software system that streamlines and optimizes various business processes. SAP integrates multiple business functions, such as finance, human resources, supply chain management, and customer relationship management, into a unified system. The collected data is stored in a centralized database managed by SAP. This database serves as a repository for all relevant information, ensuring that data is readily accessible and securely stored. Authorized users can access SAP from many locations. This is particularly important in the

Ask a question about the webpage:

Summarize the content

Submit Question

Answer:

Sure! Here's a summary of the content provided:

**SAP** (Systems, Applications, and Products in Data Processing) is a leading enterprise software used by organizations to manage business operations such as finance, supply chain, HR, and customer relations. It works as an integrated, modular system that centralizes data in a secure database, allowing authorized users access from various locations.

Key features and benefits include:

- **Process automation:** SAP automates routine and repetitive tasks (like payroll and invoicing), increasing efficiency and reducing errors.

## ○ · USE CASE 2 : AMAZON SALES GENAI CHATBOT & ANALYTICS DASHBOARD

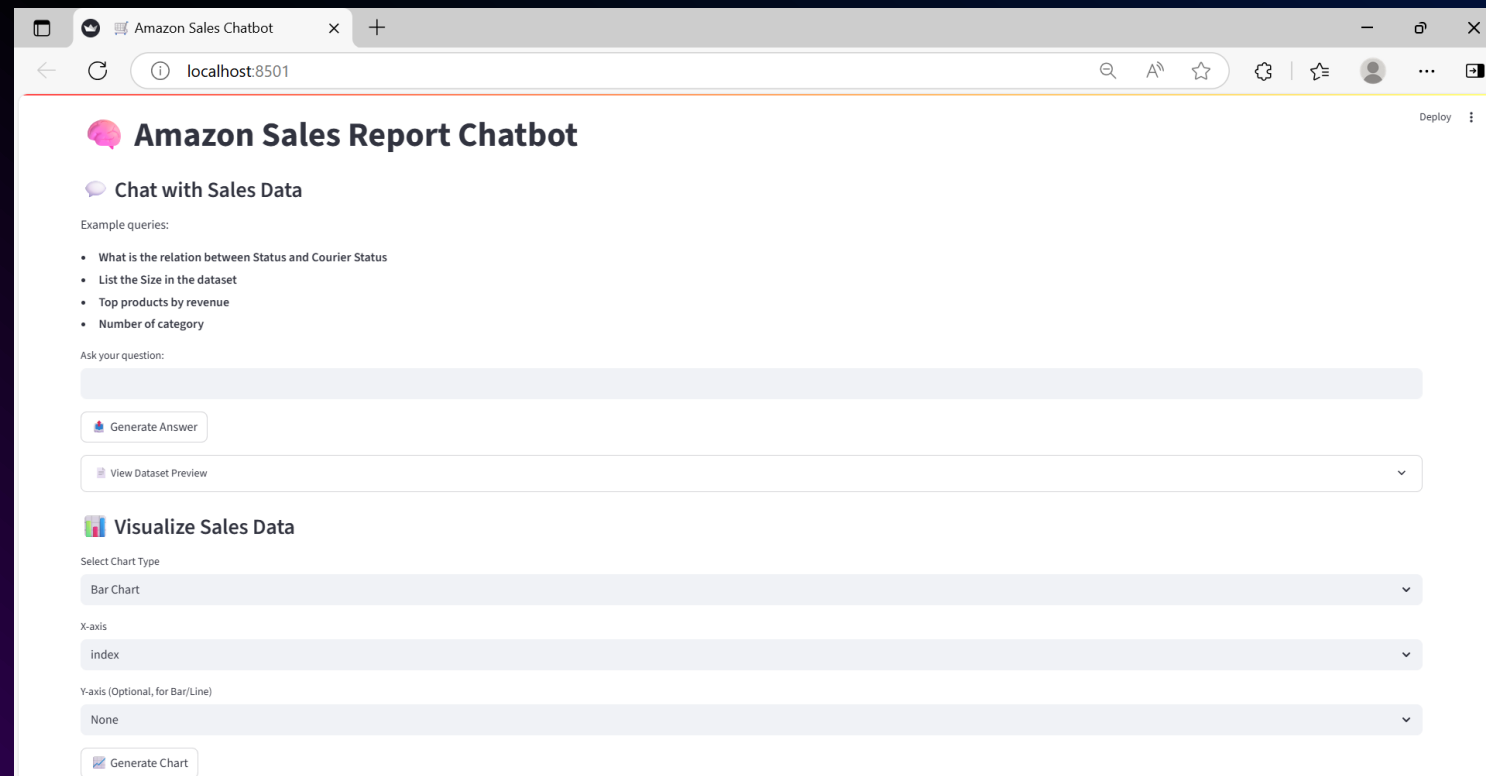
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AI-powered Streamlit Web App for Conversational Data Analytics  
Deployed Locally with OpenAI-Compatible API

### FEATURES:

- Amazon Sales Chatbot
- Chart Generator using GenAI + NLP

# HOME PAGE



The screenshot shows a web browser window with the title "Amazon Sales Chatbot". The address bar shows "localhost:8501". The page content is as follows:

## Amazon Sales Report Chatbot

Deploy

### Chat with Sales Data

Example queries:

- What is the relation between Status and Courier Status
- List the Size in the dataset
- Top products by revenue
- Number of category

Ask your question:

Generate Answer

### Visualize Sales Data

Select Chart Type

X-axis

Y-axis (Optional, for Bar/Line)

# SALES CHATBOT

## Amazon Sales Report Chatbot

### Chat with Sales Data

Example queries:

- What is the relation between Status and Courier Status
- List the Size in the dataset
- Top products by revenue
- Number of category

Ask your question:

List the Size in the dataset

 Generate Answer

 You: List the Size in the dataset

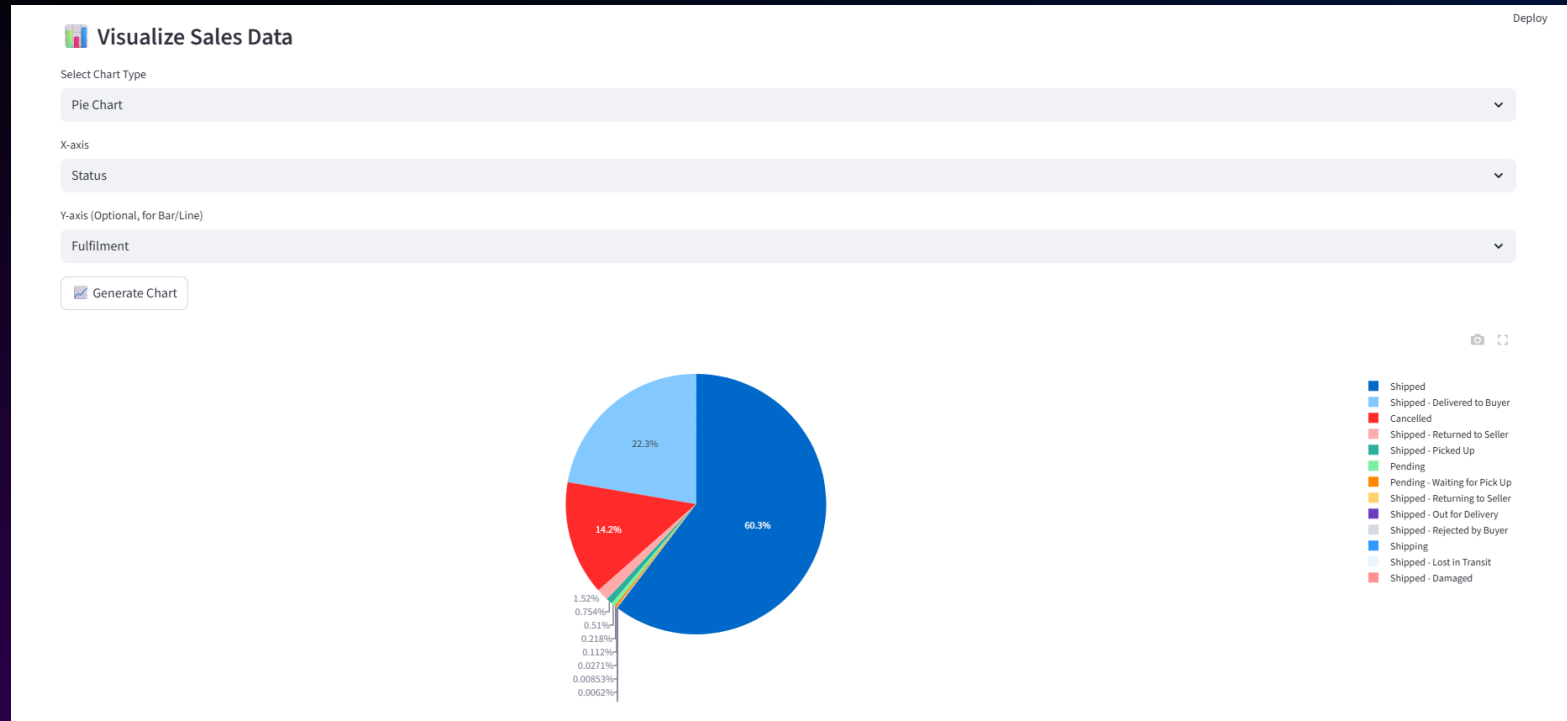
© Bot: The sizes available in the dataset are:

- L
- XL
- M
- XXL
- S
- 5XL
- XS
- 3XL

### View Dataset Preview

	index	Order ID	Date	Status	Fulfilment	Sales Channel	ship-servi
0	0	405-8078784-5731545	04-30-22	Cancelled	Merchant	Amazon.in	Standard
1	1	171-9198151-1101146	04-30-22	Shipped - Delivered to Buyer	Merchant	Amazon.in	Standard
2	2	404-0687676-7273146	04-30-22	Shipped	Amazon	Amazon.in	Expedited
3	3	403-9615377-8133951	04-30-22	Cancelled	Merchant	Amazon.in	Standard
4	4	407-1069790-7240320	04-30-22	Shipped	Amazon	Amazon.in	Expedited
5	5	404-1490984-4578765	04-30-22	Shipped	Amazon	Amazon.in	Expedited
6	6	408-5748499-6859555	04-30-22	Shipped	Amazon	Amazon.in	Expedited
7	7	406-7807733-3785945	04-30-22	Shipped - Delivered to Buyer	Merchant	Amazon.in	Standard
8	8	407-5443024-5233168	04-30-22	Cancelled	Amazon	Amazon.in	Expedited
9	9	402-4393761-0311520	04-30-22	Shipped	Amazon	Amazon.in	Expedited

# VISUALIZATION



# Technologies Used

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**Frontend:** Streamlit (Python)



**Backend API:** Flask (api.py)



**NLP Model:** OpenAI-compatible gpt-4o via DeepSeek endpoint



**Charting:** Plotly (Bar, Pie, Line, Histogram, Box)



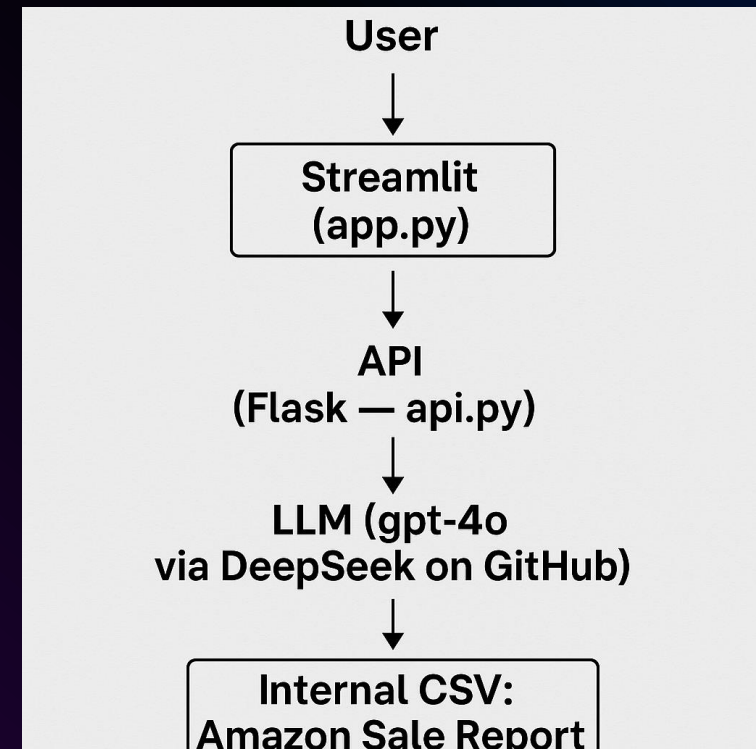
**Data:** Amazon Sales Report CSV



**Deployment:** Localhost / GitHub hosted API (can extend to AWS)

# SYSTEM ARCHITECTURE

- ❑ GenAI-powered **chatbot** for CSV Q&A
- ❑ No manual SQL/code needed
- ❑ Rich **chart visualizations**
- ❑ Clean, simple UI with multiple outputs
- ❑ Fast local deployment using GitHub inference APIs



# CONCLUSION

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Created Generative AI usecases where I implemented effective searching techniques by using RAG – Retrieval Augmented Generation to retrieval the content respective to the problem statement or business needs.



Enhanced the operations by combining Gen AI to reduce the workload and to save time.



Gen AI can be incorporated in all the domains



THANK YOU

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