

# Hello.....

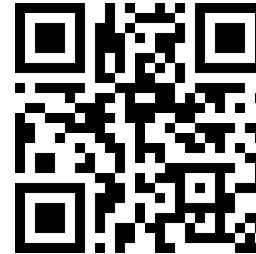


**Data Enthusiast** with 16+ years of experience in the data domain

**3x Snowflake Certified** & member of the **Snowflake Squad**

**Active Contributor** in the Snowflake Community

Currently working as **Associate Director – Technical Pre-Sales** at **Kipi.ai** (a **WNS Company**)



**Snowflake  
Agentic  
AI**



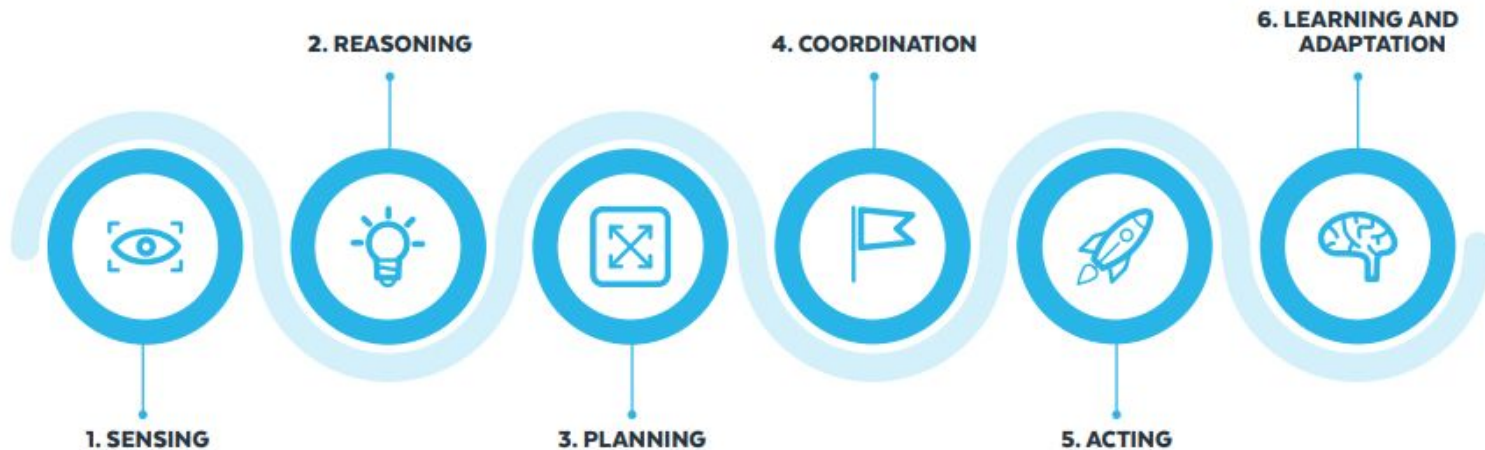


# Structuring Intelligence

How To Build Agentic Application On Snowflake

Rahul Sahay | 08.2025

# How an AI Agent Works



**Sensing:** Agents define the task or problem to be solved

**Reasoning:** Agents use LLM to interpret data, derive context, and decide

**Planning:** Use reasoning agents' insights to create actionable objective plans.

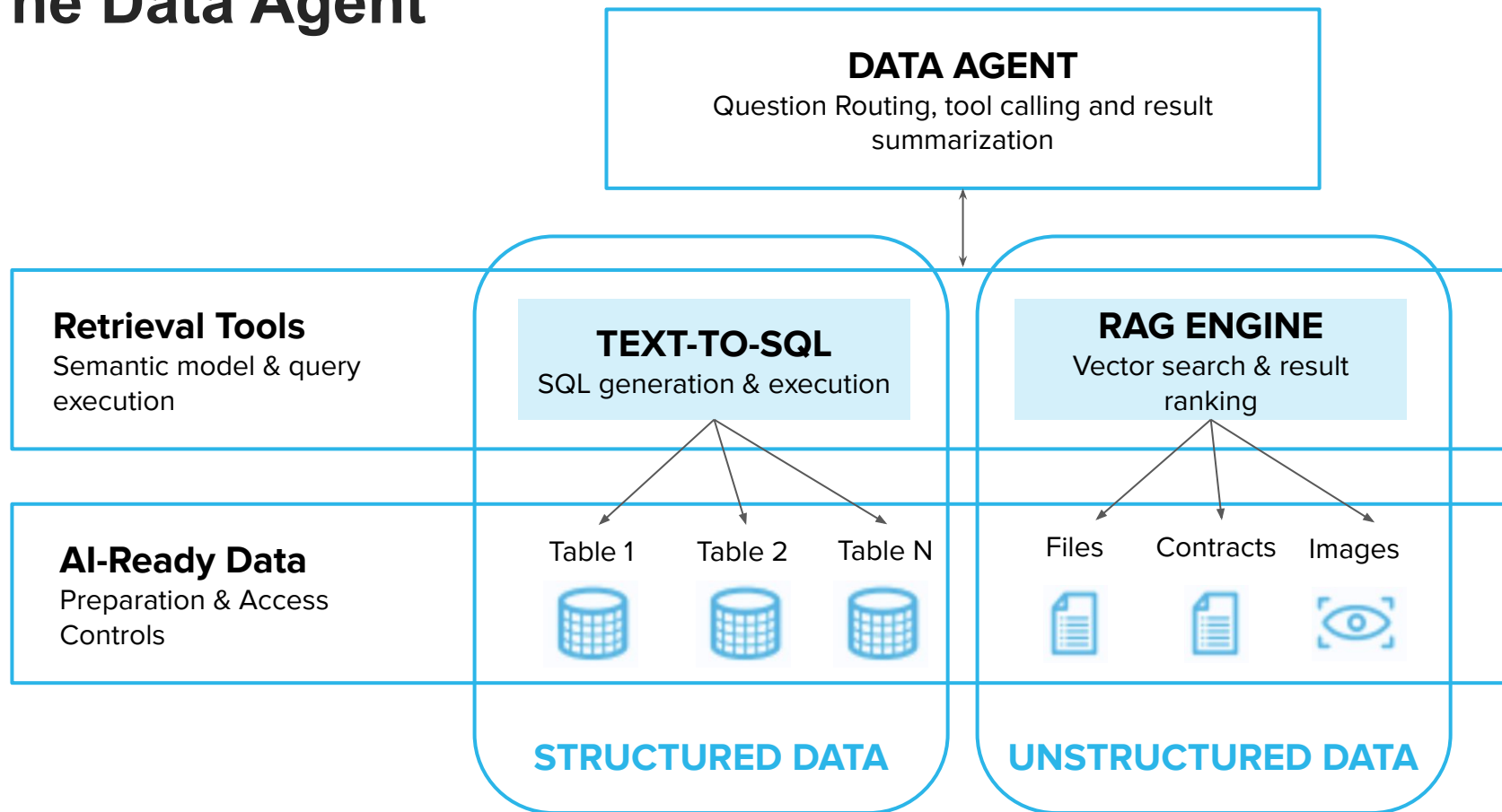
**Coordination:** Agents share plans with systems / users to stay aligned together.

**Acting:** Agents implement the plan and execute the necessary actions

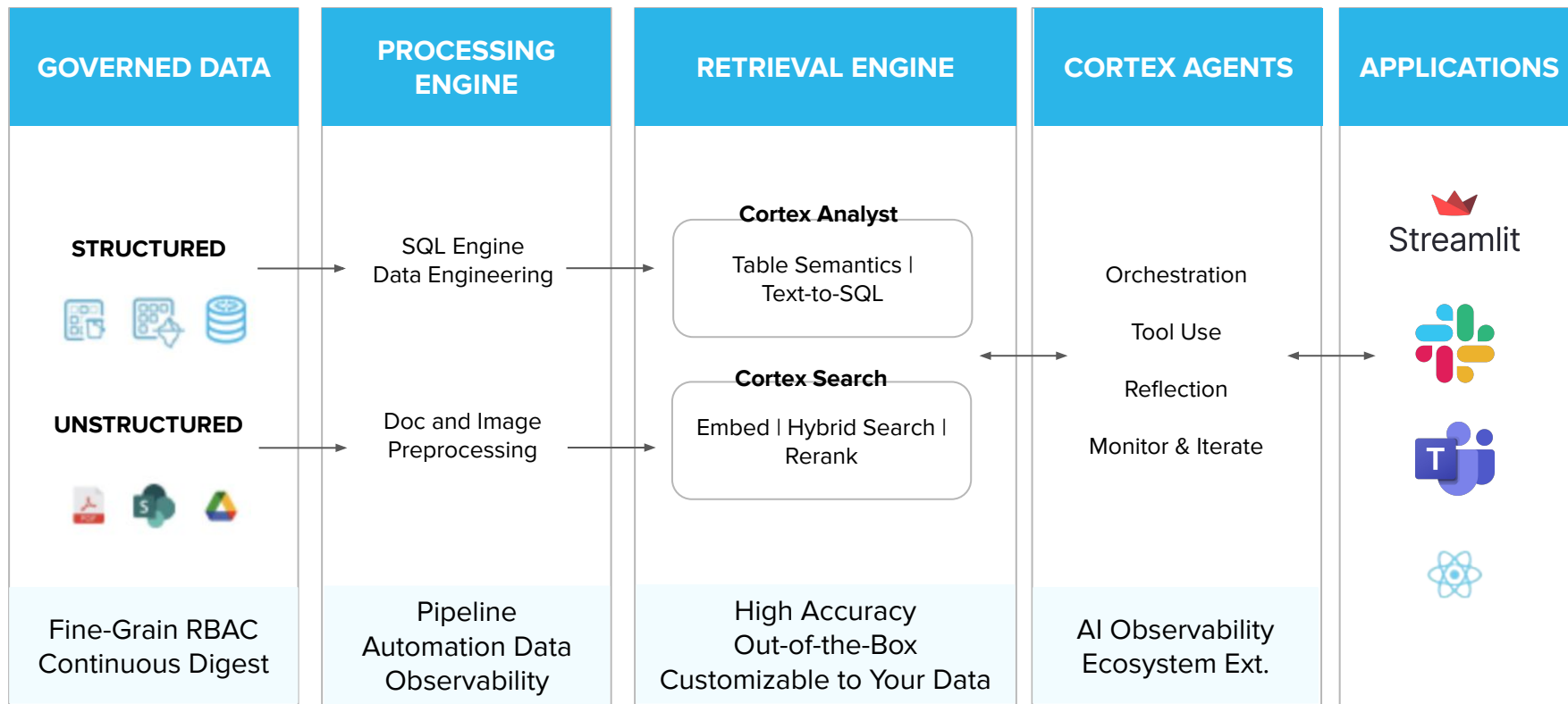
**Learning:** Agents review outcomes, take feedback, measure success, and improve future processes.



# The Data Agent



# Snowflake for Agentic AI



ANTHROPIC

Meta

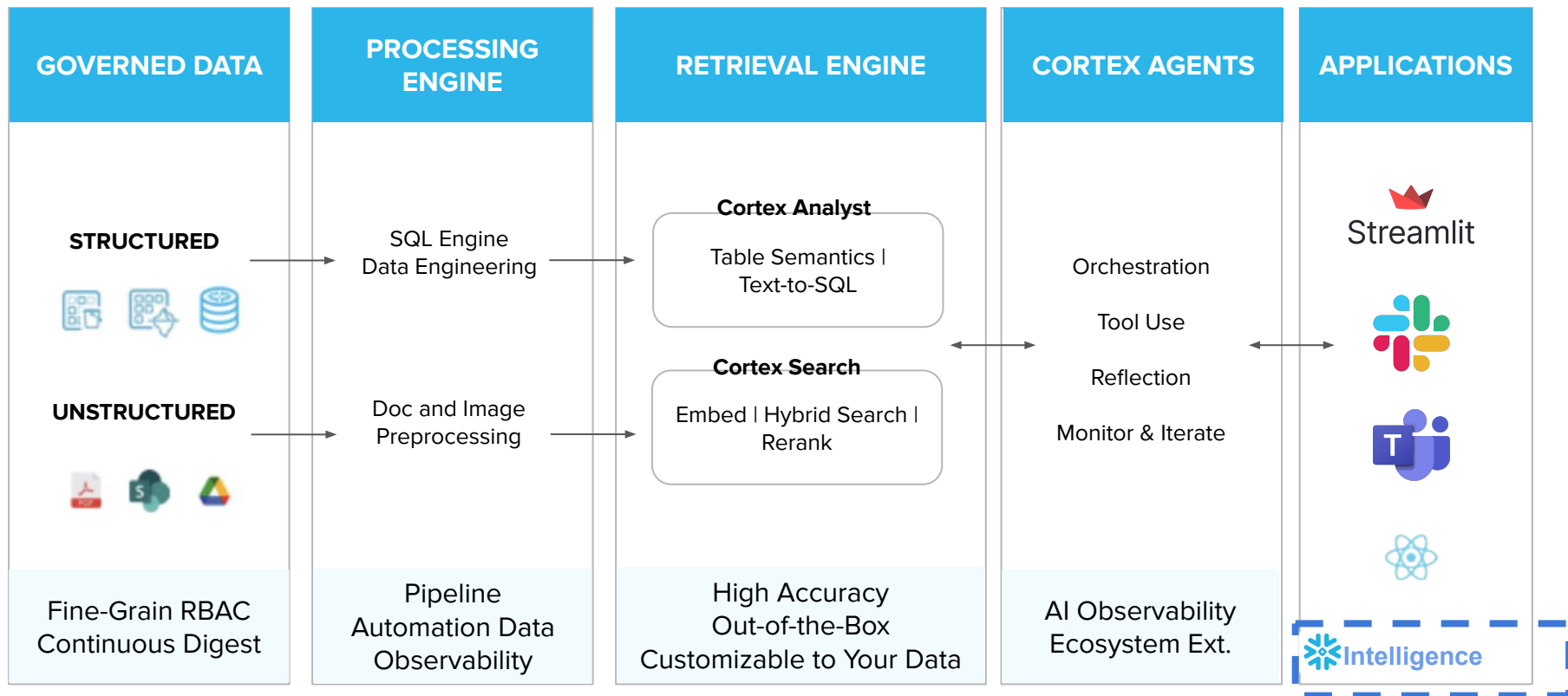
OpenAI

VOYAGE AI

snowflake



# Snowflake for Agentic AI



ANTHROPIC

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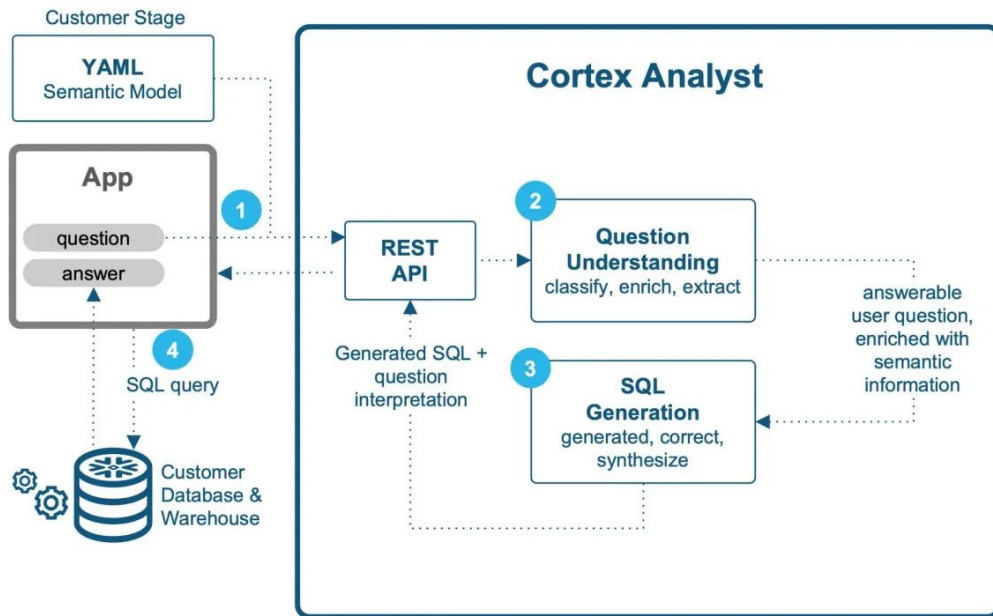
VOYAGE AI

snowflake



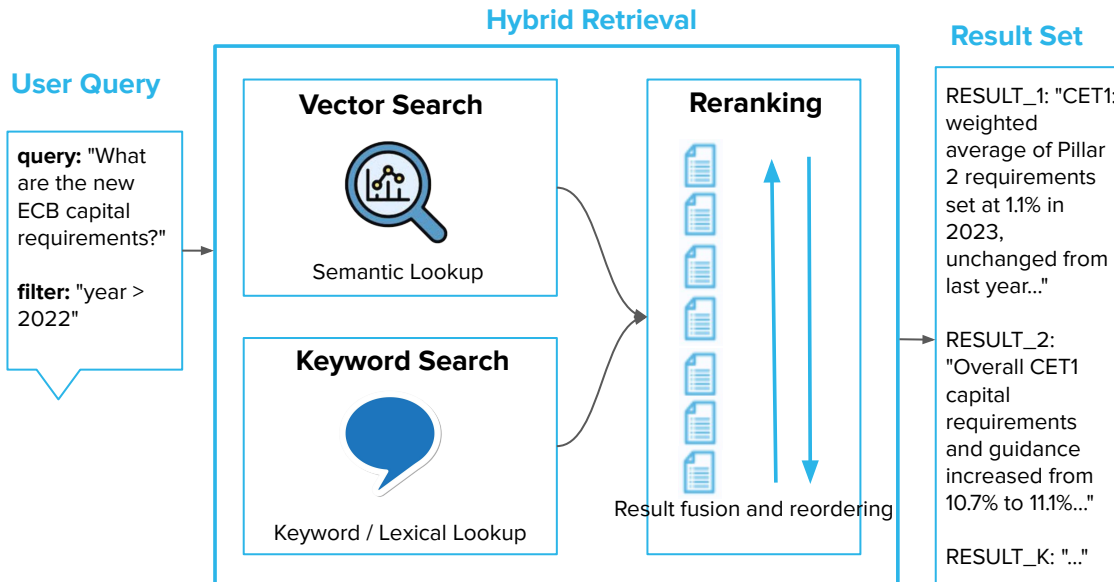
# Cortex Analyst

- Generates highly accurate **text-to-SQL responses**
- Self-serve analytics via **natural language queries**
- **REST API** integration
- Powered by **Meta Llama and Mistral models**
- **Semantic** model



# Cortex Search

- Ensemble of **retrieval** and **ranking** models
- Search query utilizes:
  - **Vector** search
  - **Keyword** search
  - **Semantic** reranking
- For optimal results  
**512 tokens** ~ **385 words**





# Use-Case : Retail Product Intelligence

## Problem:

Product managers and sales teams struggle with scattered information:

- Which products have the highest profit margins by region?
- What technical specifications and warranty coverage do our best-selling items offer?
- How do visual product features correlate with sales performance?
- Which customer segments prefer specific product categories, and why?
- What maintenance requirements are driving customer satisfaction scores?

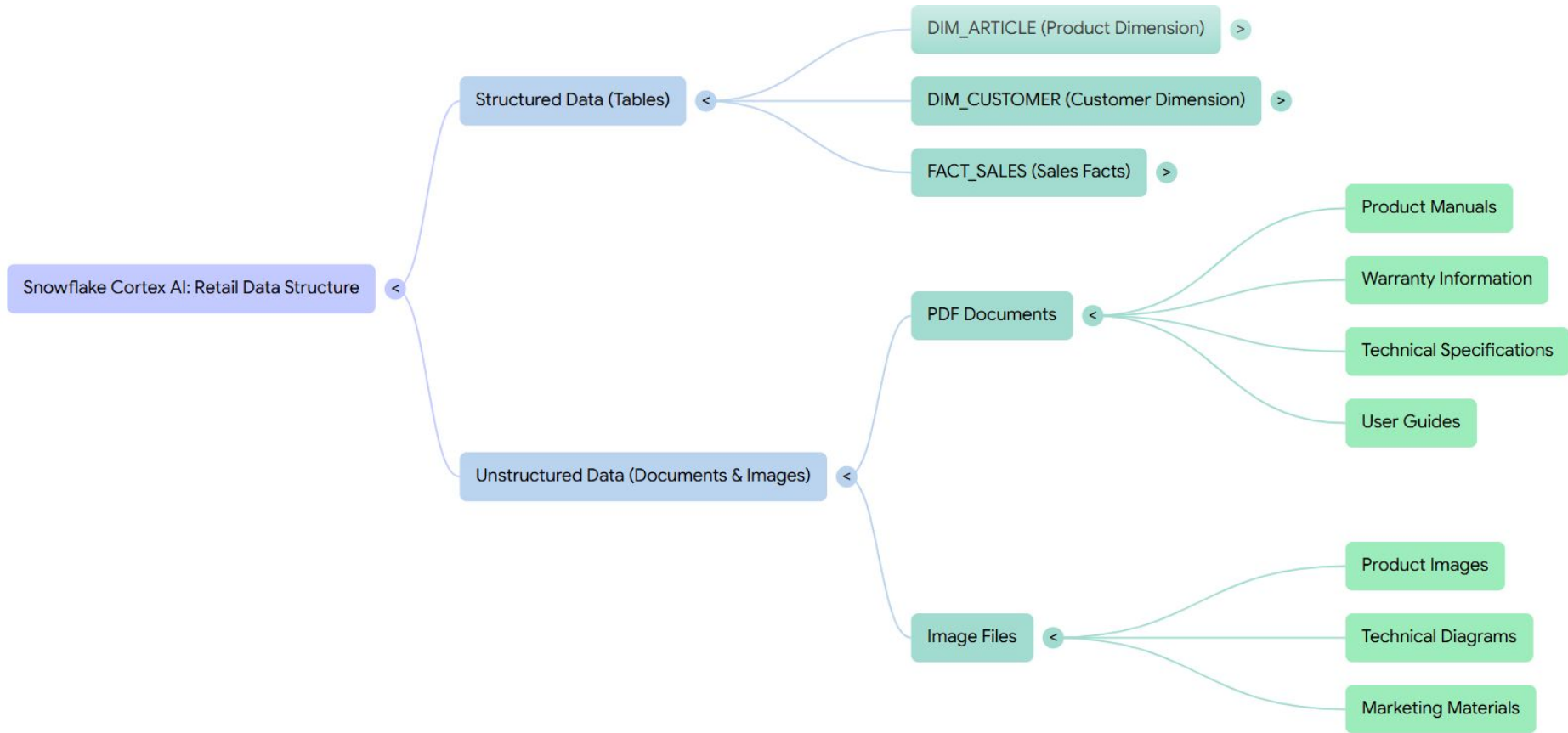
## Solution

Intelligent solution using Snowflake Cortex AI to empower product teams, sales reps etc with a smart, interactive assistant. It seamlessly answers complex questions like:

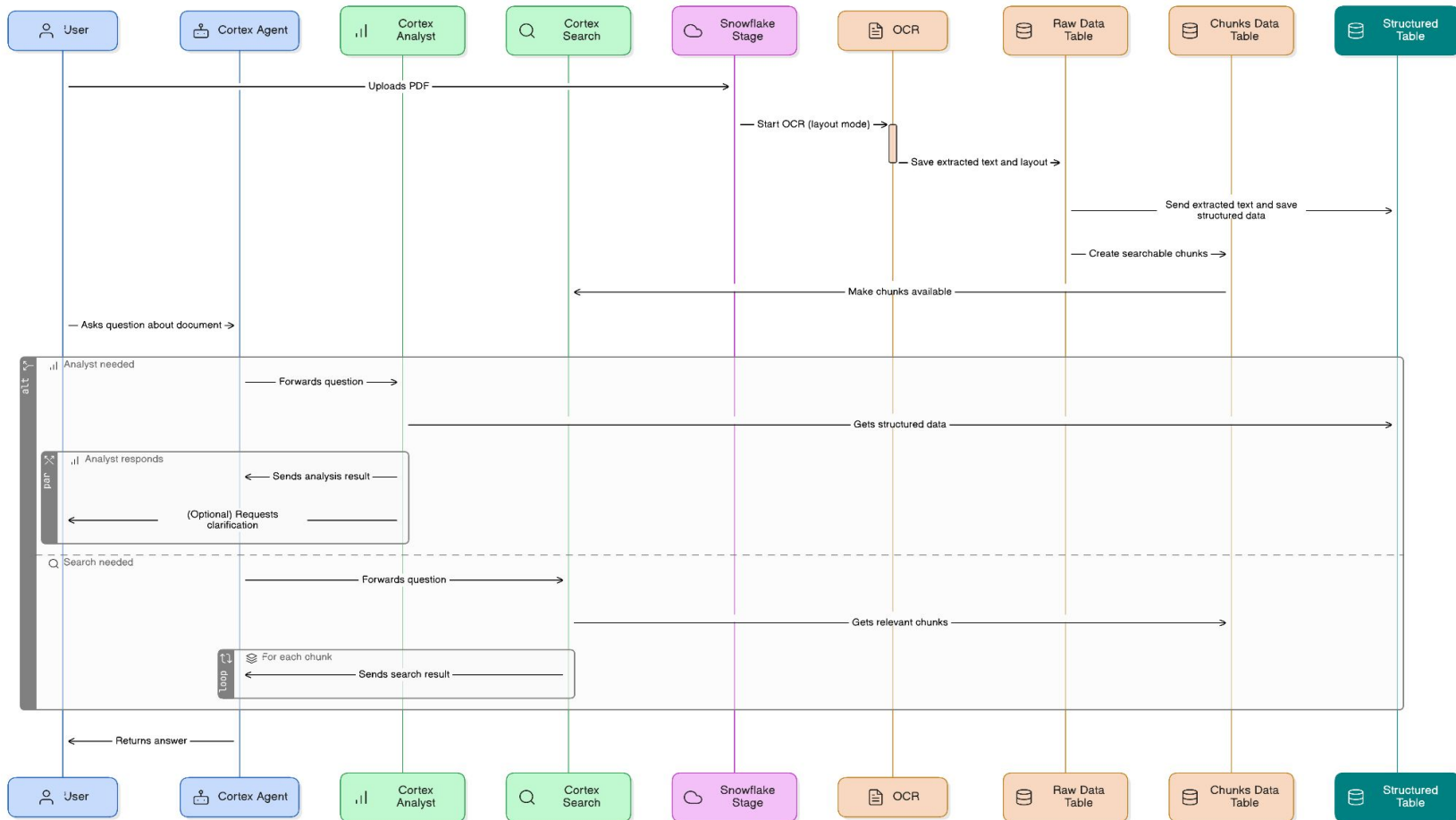
- Which products have the highest profit margins in the North region this quarter?
- What are the complete warranty terms for our Ultimate Downhill Bike model?
- How do the technical specifications of Carver Skis compare to competitor products?
- Which customer segments are driving the most revenue for bike vs ski categories?
- What visual design features correlate with our best-selling products?



# Data Structure



# Workflow





# DEMO

# THANK YOU



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# Appendix



# Premium Bike Warranty Details

External

Snowflake-Webinars x



Snowflake Computing <no-reply@snowflake.net>

to me ▼

## Premium Bike Warranty Information

Dear Team,

Here are the comprehensive details about our premium bike warranty:

### Warranty Coverage:

- **Duration:** 14 months from the date of purchase
- **Coverage includes:**
  - Manufacturing defects
  - Faults in materials
  - Faults in workmanship

### Warranty Claim Process:

1. Contact our customer service department
2. Provide proof of purchase

### Additional Important Information:

- Regular maintenance is required to maintain warranty validity
- Keep your warranty card safe as it contains detailed terms and conditions

### Usage Guidelines for Warranty Validity:

- Follow proper maintenance schedules
- Use appropriate products for maintenance
- **Note:** Do not use the bike when temperature exceeds 40 degrees celsius as tires are not designed for such temperatures

For any questions or to make a warranty claim, please contact our customer service department.

Best regards,  
Customer Service Team

# Monthly Sales Revenue Trends Analysis by Product Category External



**Snowflake Computing** <no-reply@snowflake.net>

to me ▾

## Monthly Sales Revenue Trends Analysis (Past 2 Years)

Dear Leadership Team,

Here's a detailed analysis of our monthly sales revenue trends by product category over the past 2 years:

### Key Findings:

- **Bikes:** Our highest revenue generator, consistently achieving ₹40-50 million in monthly revenue
- **Skis:** Second-highest revenue stream, generating ₹3-4 million monthly
- **Ski Boots:** Stable revenue pattern of ₹800,000-900,000 per month

The detailed data and visualizations are available in our analytics platform. You can access:

- Interactive trend visualization showing monthly patterns
- Comprehensive monthly breakdown table with exact figures

Please access the platform to view the complete dataset and interactive visualizations for deeper insights.

Best regards,

**Analytics Team**

