

Synechron

Revolutionizing Data Engineering and Analytics with Agentic AI

Agentic AI empowers organizations with end-to-end data solutions, including database interfacing, intelligent query execution, big data processing, and advanced analytics for informed decision-making.



Infrastructure
Azure



Digital & App Innovation
Azure



Data & AI
Azure

Managing a complex Enterprise Data Estate seamlessly

Common Data challenges include Fragmentation, Scaling Big Data, Virtualization, Entity Resolution, Visualization, Business Intelligence & Predictive Analytics.

Agentic AI for Data handles all these challenges seamlessly.



Primary Challenges

The need for well-informed, quick and accurate decisions is undermined by fragmented data, data quality issues and complex/specialist data management tooling



Ideal Solution

Clients seek democratized data access, faster data processing, enhanced data accuracy, and advanced descriptive and predictive analytics capabilities, all of which support quicker and more informed decision-making.



Desired Outcomes

Our solution uses Agentic AI to access a unified data management system, facilitating seamless data integration, predictive analytics & big data orchestration, ensuring rapid, quality-driven insights.



Agentic AI for Data powered by Azure OpenAI

Empower your data strategy with AI-driven insights, seamless data integration, and scalable analytics. Agentic AI transforms complex data challenges into actionable intelligence.



1. Seamless Data Integration

Unify data across databases to democratize access for all and unlocking value.



2. Data Virtualization

All fragmented data can be brought to a single pane of control at Enterprise scale



3. Big Data Orchestration

Seamlessly perform Big Data ETL using a conversational AI

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4. Predictive Analytics & Explainable AI

Invoke Predictive Analytics capabilities like Forecasting & Anomaly Detection with the benefit of Explainable AI



5. Visualization & Business Intelligence

Identify, Suggest and Generate suitable visualizations for your data and discover insights using Business Intelligence



6. Data Quality & Privacy

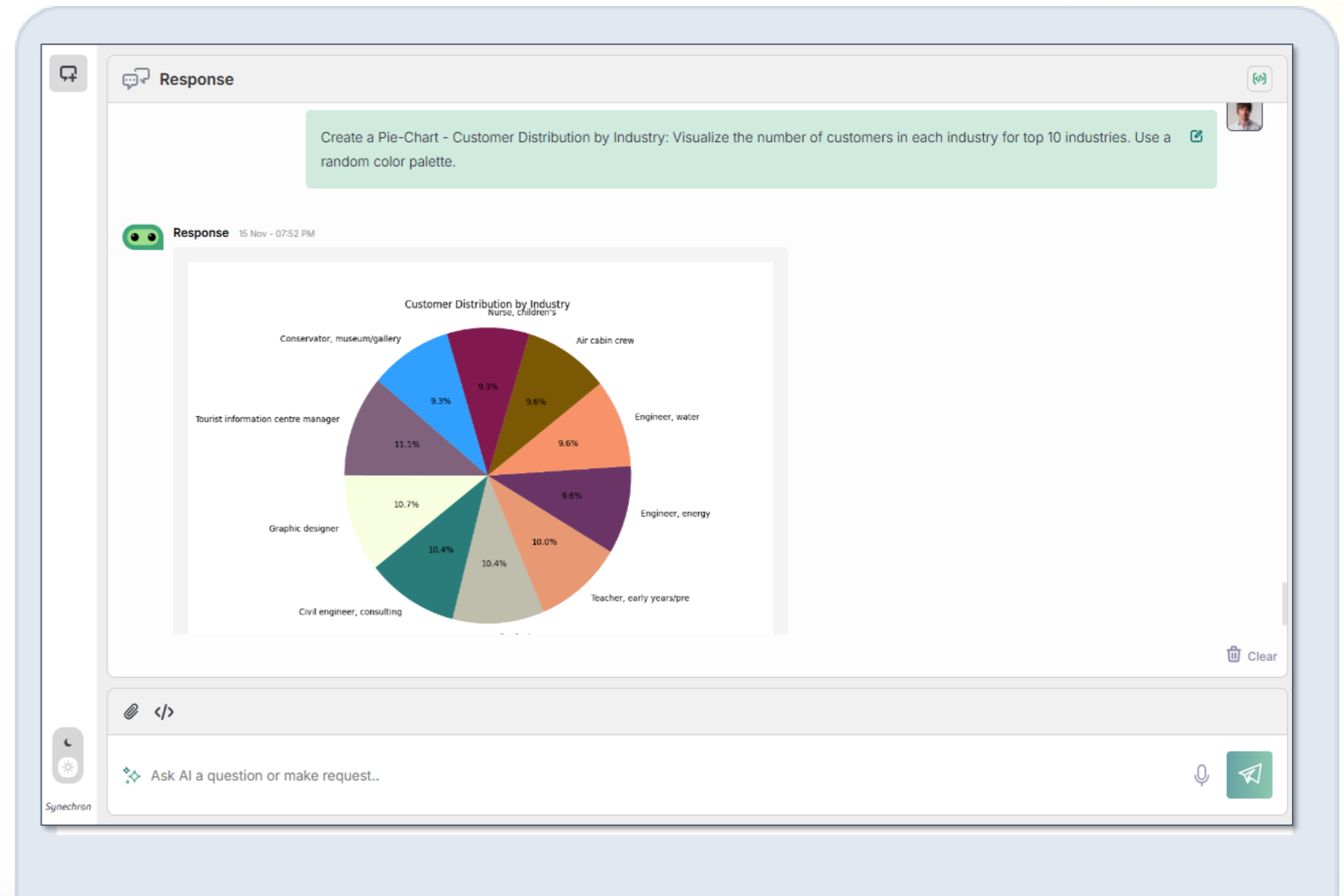
Entity Resolution for improved Data Quality & Data-masking for Personally Identifiable Information

Agentic AI for Data In Action

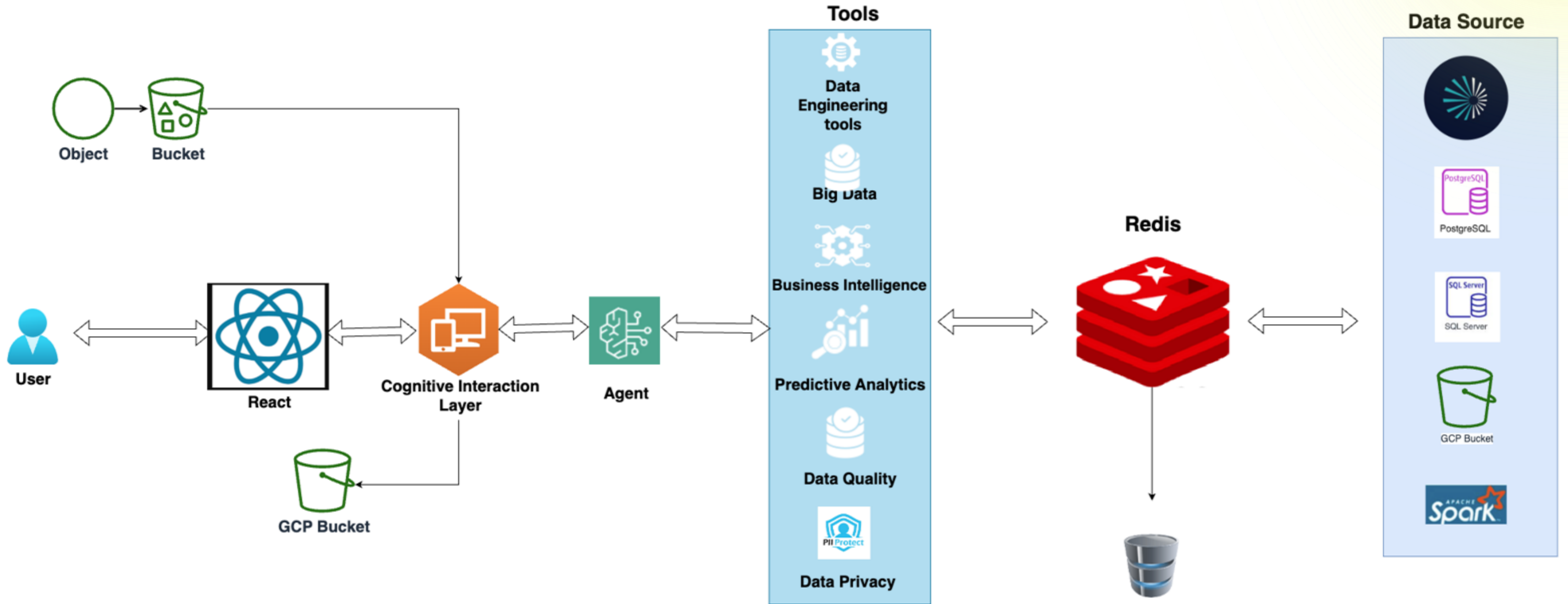
Screenshot showcasing our solution in action

PROMPT

Create a Pie-Chart - Customer Distribution by Industry: Visualize the number of customers in each industry for top 10 industries. Use a random color palette



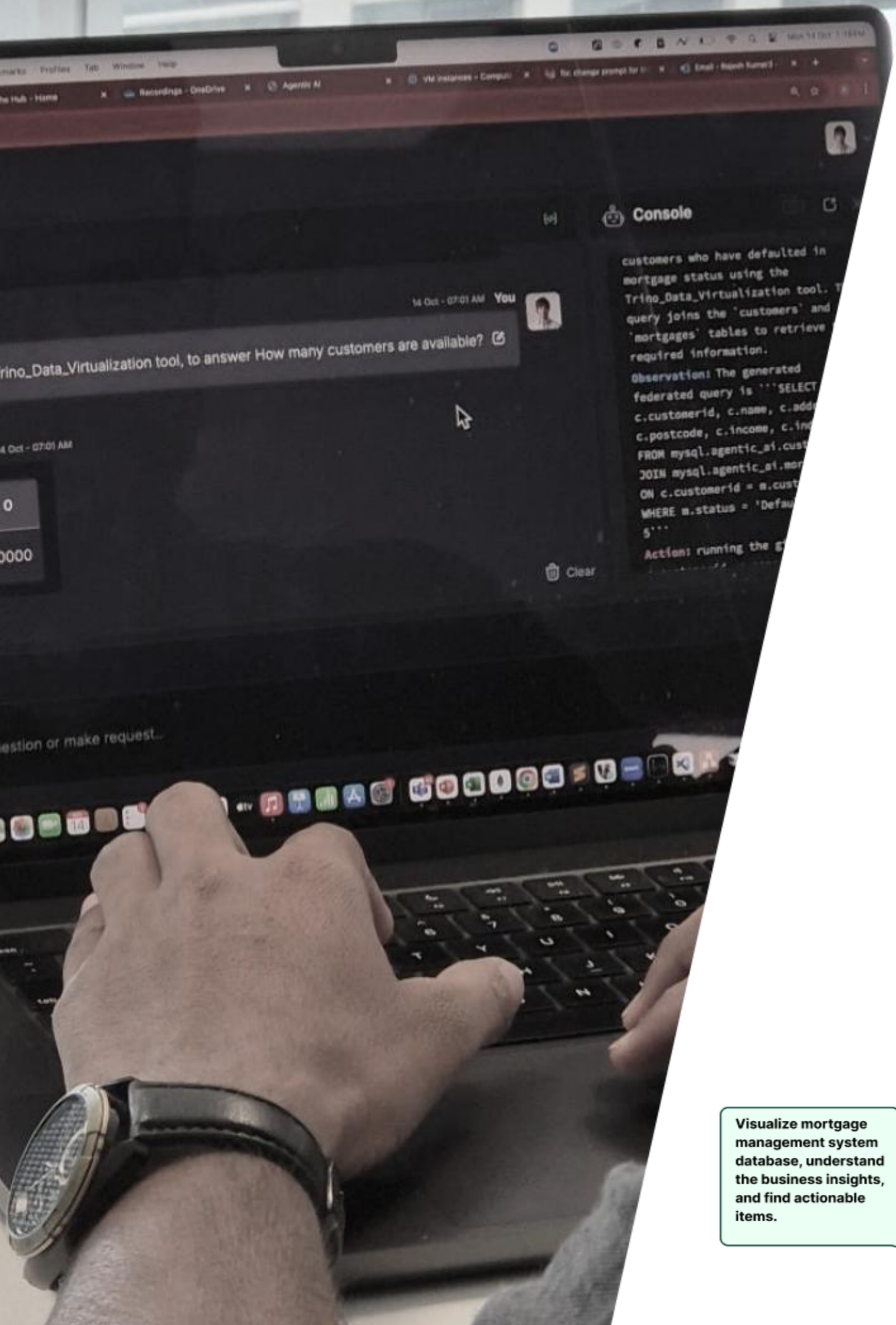
Agentic AI for Data – Architecture Diagram



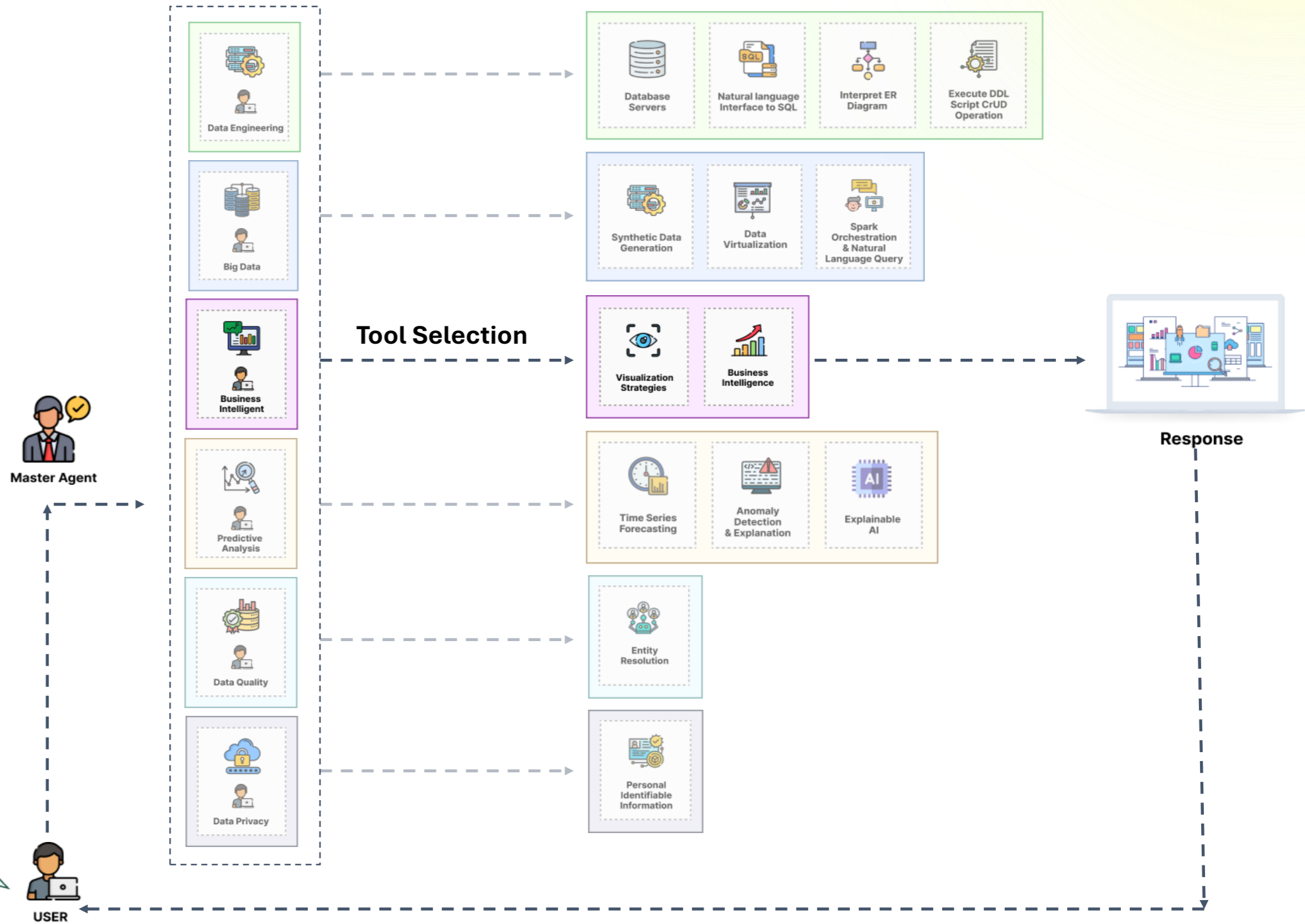
Tech Stack

Tech Domain	Micro / Front End	Core Programming Lang	Auth & Authorization	Cloud Platform	NoSQL DB Engine	OLTP Storage	Data Processing Engine	Data Science/ML	Microservices	Data warehouse/Lake	DevOps
Framework	ReactJS	Python	OAuth 2.0	Azure	Mongo DB	MySQL, Postgres	Spark	Python, Azure OpenAI	FastAPI	DataBricks/Fabric	Jenkins, GitLab

Agentic AI for Data – User Journey



Visualize mortgage management system database, understand the business insights, and find actionable items.



Synechron

Thank you

Business Inquiries
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Media Queries
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See our offer on the
Microsoft Commercial Marketplace



Infrastructure
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Data & AI
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