ResearcHut

Committed to providing the most *advanced and innovative* solutions to help our clients.

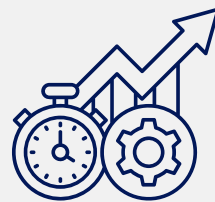Company Profile

2023

About ResearcHut

ResearcHut is a data and AI driven solutions company that specializes in providing AI-powered services and products to businesses across industries. **Our innovative platform combines the power of Microsoft Azure AI, Power Platform and ChatGPT service** to deliver a cutting-edge solution that helps businesses improve customer service, enhance operational efficiency, and increase sales.

The company's mission is to enable businesses to leverage data and AI to drive:

Growth   **Efficiency**   **Innovation**

Our
Services

Consulting Service

brings an extensive portfolio of industry experience, methodologies, and deep technical expertise to each project and initiative. Our implementation services take well-established platforms and technologies and adapt them to your business, customizing them to your use cases and systems to create a solid foundation and expand your capabilities.

Our implementation services leverage a range of tried-and-true practices, patterns, frameworks, templates, and connectors to accelerate time to value. We deploy the infrastructures and tools to help people do their jobs better, faster, and cheaper

Design & Creation

Throughout the entire design and creation process, it is crucial to consider ethical and legal considerations, such as data privacy, security, and transparency. Adhering to ethical guidelines and ensuring compliance with relevant regulations is essential to building responsible and trustworthy AI solutions.

ResearcHut designing and creating Data AI solutions involve a combination of data analysis, algorithm development, model training, and continuous improvement to address specific business challenges and leverage the power of AI to drive meaningful insights and value.

Our
Services

Offers

ResearcHut offers a range of services, including AI-powered demand forecasting, SKU assortment optimization, market basket analysis, and inventory management. Our solutions are designed to help businesses optimize their operations, reduce costs, and increase revenue.

Connection & integration

Our platform utilizes cutting-edge technologies and AI to provide accurate, comprehensive, flexible, and cost-effective data. We integrate with existing systems and processes seamlessly, making our platform easy to use and accessible to businesses of all sizes.

Our
expertise

Our innovative platform combines the power of **Microsoft azure AI, Microsoft Power Platform, Data Analysis and ChatGPT** service to deliver a cutting-edge solution that helps businesses improve customer service, enhance operational efficiency, and increase sales.

About RetailHut™

The integration of data and Microsoft Azure AI and Power Platform with ChatGPT in the retail industry is revolutionizing decision-making, customer engagement, operational efficiency, and supply chain management. Retailers that effectively leverage these technologies can gain a competitive edge in a rapidly evolving marketplace.
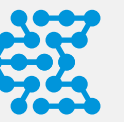
StockView for Retail

Stock View helps retailers reduce lost sales and improve customer experience by automatically detecting out of stock items on shelves.

Stock View uses computer vision technology running at the edge to detect gaps on store shelves automatically. It also provides retailers with powerful insights and analytics into stock-out activities at both single-store and multi-store levels.

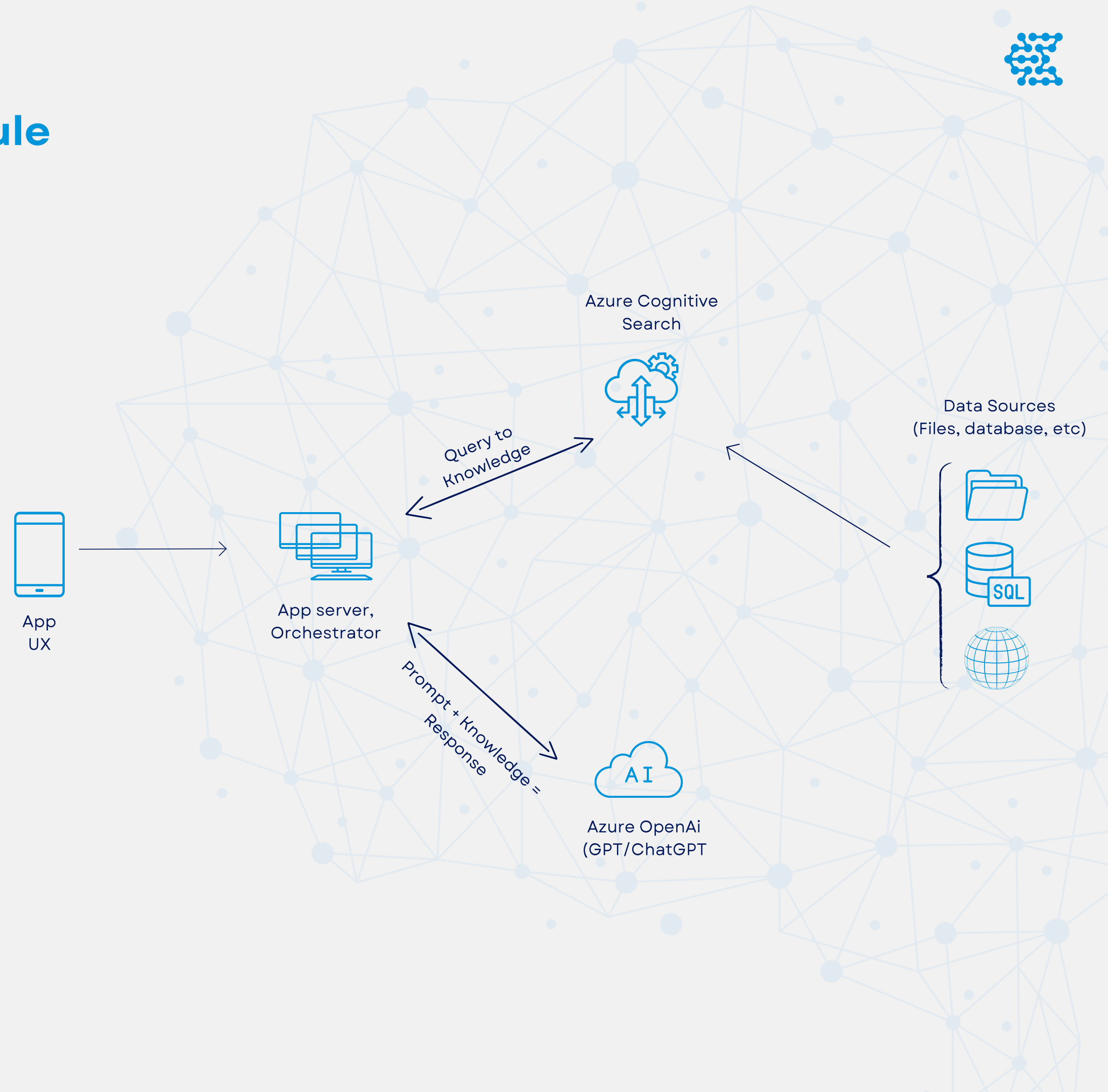# Basket Analysis & Product Recommendation

Market basket analysis or product recommendation is where you take inventory and point-of-sale data to predict which combinations of products will sell the best. With a clean sales history, businesses can identify which products tend to be purchased together with the solution. Simply speaking, it allows retailers to identify relationships between the items that people buy.
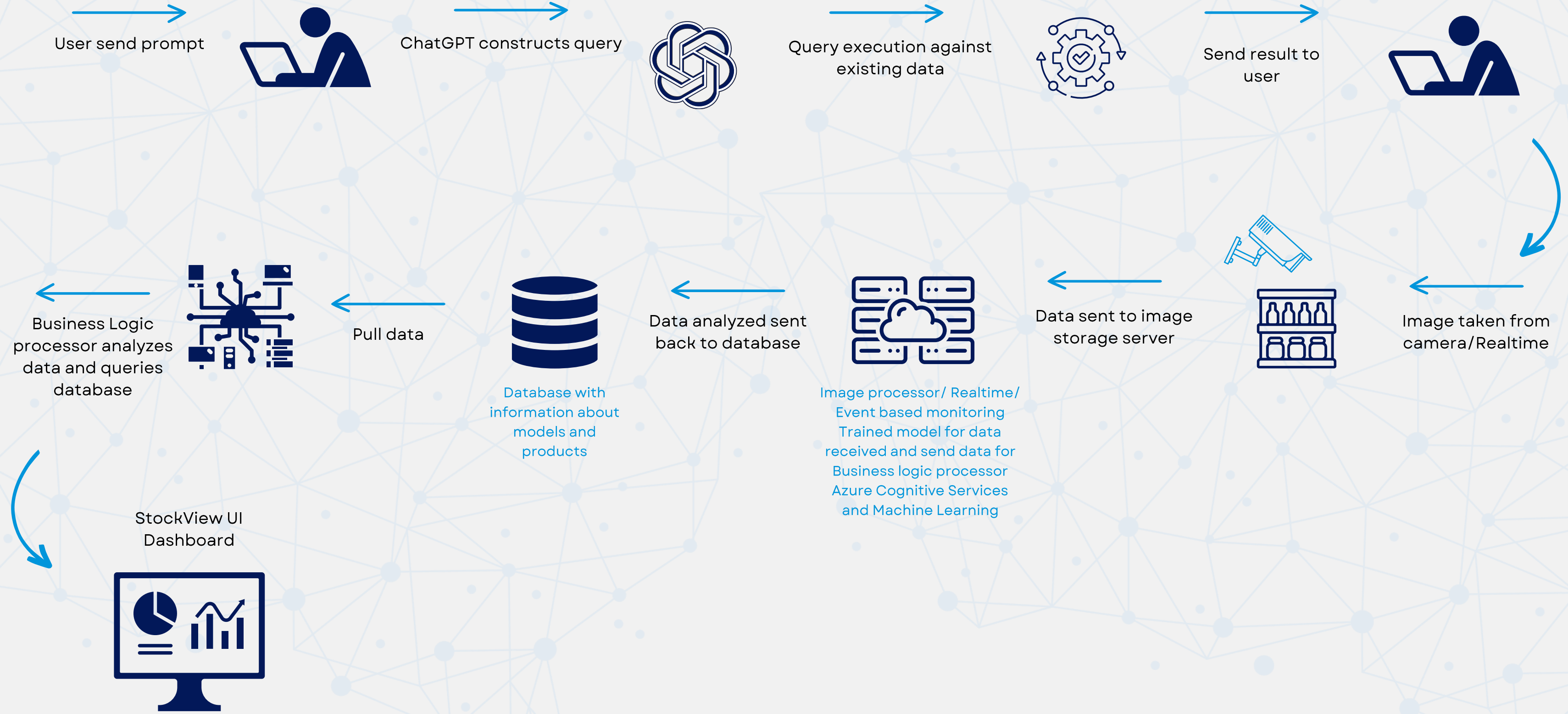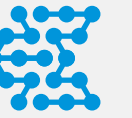
Using machine learning and Power Platform, retailers can then recommend an additional item to the customer based on the item in their basket.

StockView / Basket Analysis Module

- Collect basket data from ERP (sales data).
- Collect data from Stock View interface.
- Provide options for application user to send prompts to Azure Open AI and give insights, recommendations about sent data (ex. Given data user can prompt to get analysis insights and recommendation about better sales, actions, product sale recommendation, sale patterns and improve stock availability and ordering.
- Provide backend SQL code for user inputs/ prompts which will enable user to dynamically construct analysis request (data) which will be performed over existing sales data.
- Add different generative models and train them before exposing to the customer for final use.

App UX

App server, Orchestrator

Azure Cognitive Search

Query to Knowledge

Prompt + Knowledge = Response

Azure OpenAi (GPT/ChatGPT

Data Sources (Files, database, etc)

SQL

User send prompt

ChatGPT constructs query

Query execution against existing data

Send result to user

Image taken from camera/Realtime

Data sent to image storage server

Image processor/ Realtime/ Event based monitoring Trained model for data received and send data for Business logic processor Azure Cognitive Services and Machine Learning

Data analyzed sent back to database

Database with information about models and products

Pull data

Business Logic processor analyzes data and queries database

StockView UI Dashboard

Defining Our
Path to
Excellence

Vision

leading provider of innovative solutions that transform industries, drive growth, and create sustainable value for our customers and stakeholders.

Mission

developing cutting-edge technology and deliver world-class services that enable our customers to achieve their goals, optimize their operations, and enhance their customers' experience.

Goal

Using innovative AI solutions to help businesses improve their operations, increase sales, and stay ahead in a competitive market, while providing valuable insights and analytics that optimize important metrics.
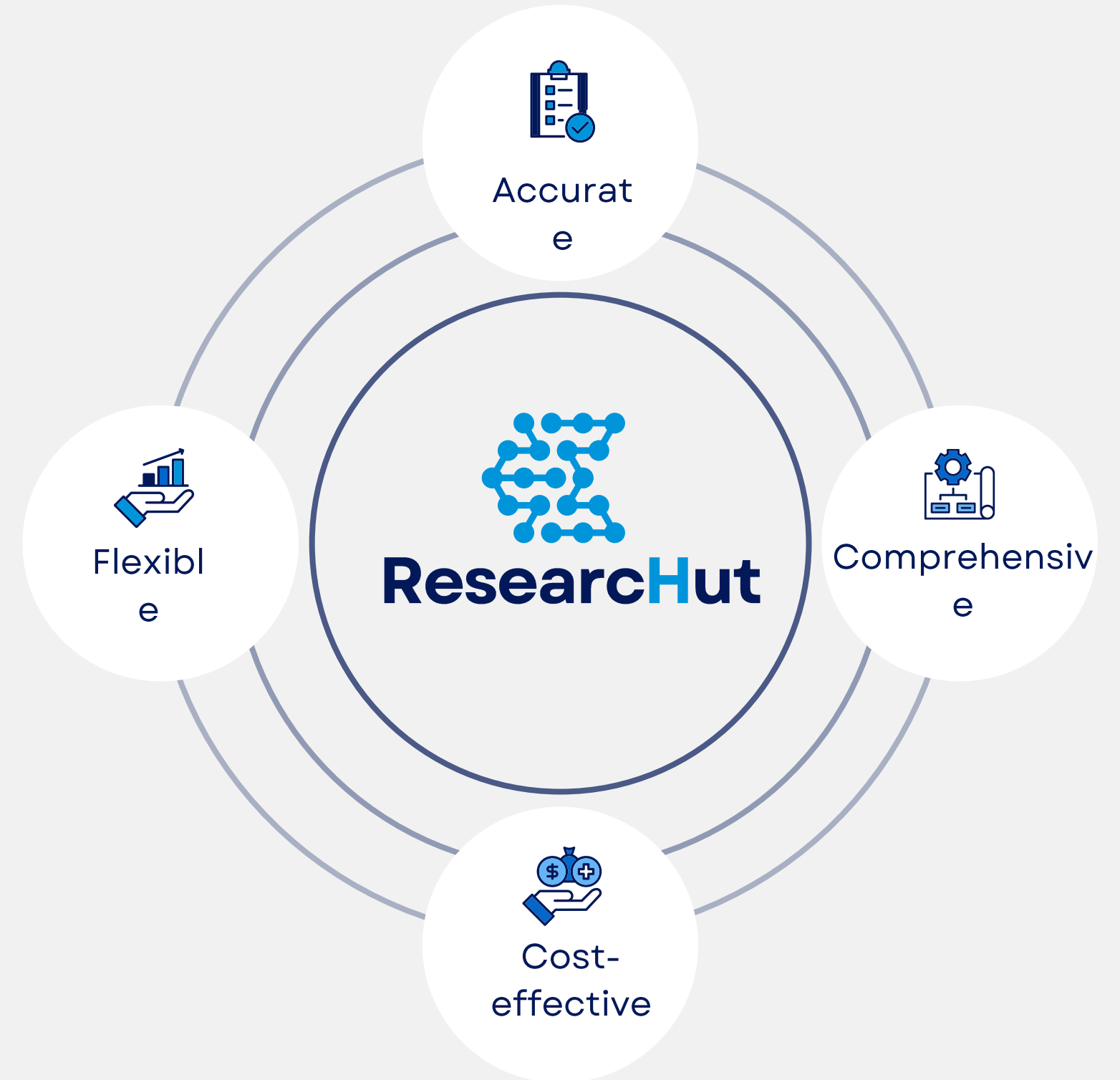
Unlock your business potentials with ResearcHut

At **ResearcHut**, we understand the challenges businesses face when it comes to data driven decisions. Existing tools can be inaccurate, incomplete, inflexible, complex, difficult to integrate, expensive, and lack customization. These issues can lead to poor decision-making, lost opportunities, and decreased profitability.
We are committed to providing a solution that addresses these common issues.

Our platform utilizes cutting-edge technologies and AI to provide **accurate, comprehensive, flexible, and cost-effective** data. We integrate with existing systems and processes seamlessly, making our platform easy to use and accessible to businesses of all sizes.
Our platform is highly customizable, allowing businesses to tailor it to their specific needs and objectives. We understand that every business is unique, and we strive to provide a solution that meets those unique requirements.

Utilizes accurate and comprehensive data

Integrates with existing data sources

Offers comprehensive coverage

Adapts to changing business needs and market conditions

User-friendly and accessible to all

Cost-effective solution

Highly customizable to meet unique business needs

High-end AI integrations

ResearcHut perspective for AI powered services

ResearcHut

Develop your capacity to withstand business challenges

Explore how we can equip you to run your business with greater flexibility, ingenuity, and promptness

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