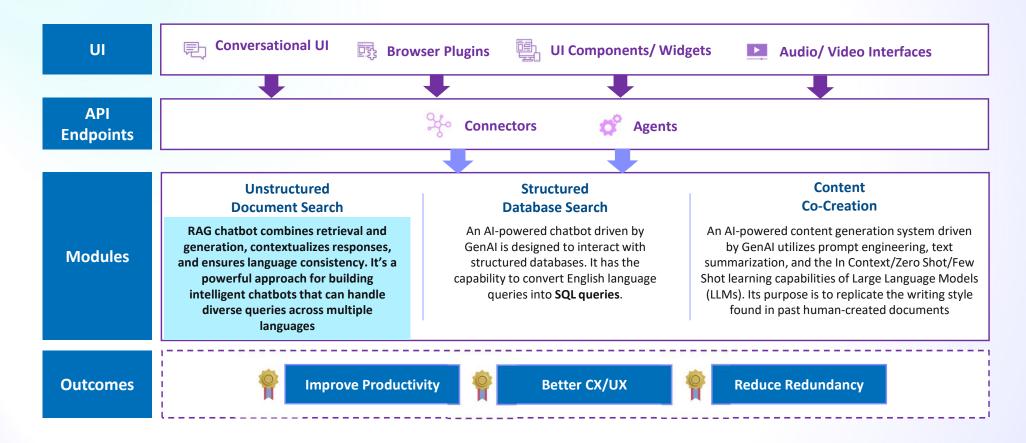
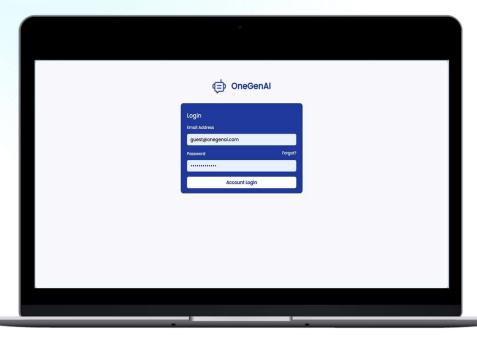


Knowledge Management approach with the lens of AI/GenAI





Application Demo & Highlights



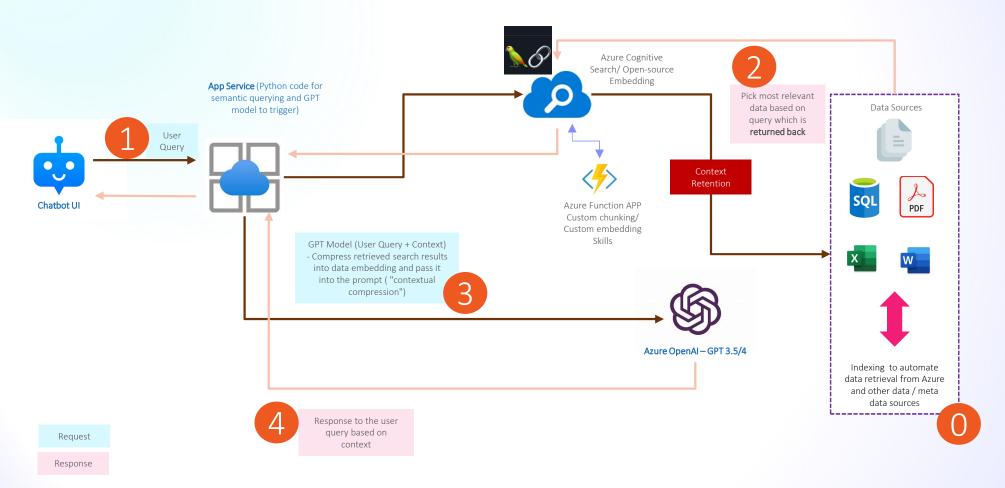
ContentSearch.Al – Unstructured Document Search Engine

*	Big Bets for Business	*	App Highlights
*	Write Simple English for data insights	*	Scalable Orchestration with Azure Functions
*	Managed Data Services Automation	*	Privacy Ensured Training on Azure OpenAl
*	Better Adoption of Data Ecosystem	*	Feedback loop and Stewardship
*	Improved real-time decision making	*	Historic Archival and Retrieval on Azure Blob Storage
*	Multilingual for global rollouts	*	Configurable to switch across any LLM model
*	Reduce dependency on IT	*	Intuitive / Dynamic Prompt Building with Langchain
*	Feedback loop and Stewardship	.•.	Fig. One and Condit Consumption
• *	80% effort and cost reduction for data analysis	**	FinOps and Credit Consumption Dashboards
*	Pay as you Go Pricing with	*	Configurable across variety of data ecosystem metadata



Azure Open Al

ContentSearch.Al reference architecture on Microsoft Azure



Value addition through AI / GenAI

Modules

Challenges

AI / GenAI Intervention

Derived Benefits

Unstructured Document Search

- Manual search across multiple documents for relevant information
- Traditional NLP methods not adept at capturing context and can only capture very specific content
- Time Consuming process to translate content from multiple languages.
- Manual efforts in summarization and extraction of key entities

- Retrieval Augmented Generation (RAG) search driven chatbot for automated search across multiple languages
- LLM contextualization of the response
- GenAl to return responses to queries in the same language, irrespective of the language in the document.
- Identification and Creation of Key nodes, relationships and communities.

- 30% reduction in Turn Around Time for resolving incidents
- 20% improvement in NPS scores due to faster resolution of customer queries
- 50% reduction in business users time, searching for relevant content
- 30% reduction in manual efforts for translation.
- Improved search and responses by capturing comprehensive context.



Typical Implementation Roadmap

- Blob storage as data source
- •PDF Data extraction at page level
- Azure Al Search default skills
- Azure AI Search for data indexing
- •Default chunking size and Azure Openai Embeddings
- Azure Openai LLMs
- Existing Prompt templates
- •Caching using Azure AI search
- Feedback
- •Flask API creation
- Webapp creation and deployment

Simple - Clean text data

2 Weeks

4-5 Weeks

Medium – Text data with OCR, language translation

- Azure Al Search custom skills
- •Azure Openai LLMs
- Custom prompts
- •Caching using Azure Al search
- Feedback
- •Flask API creation
- Webapp creation and deployment

- Custom data source
- Data preprocessing and extraction at page level
- Custom skills [Form recognizer, Plot digitizer] and Azure Al Search skills
- Azure Al Search for data indexing
- Custom chunking and embeddings
- •Graph-RAG
- •Integration to Custom LLMs

Complex – Text data with tables

8 Weeks

