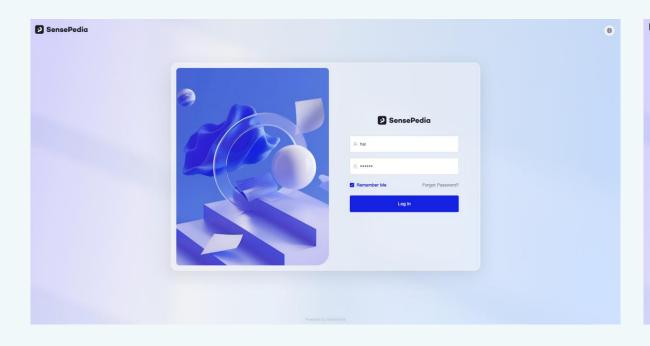


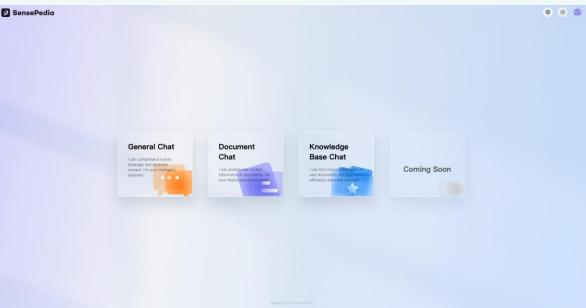
WHAT IS SENSEPEDIA



SensePedia is a question-and-answer system based on documents and knowledge bases, capable of quick question answering, document analysis, and reference cross-checking

Powered by Large Language Model (LLM) & Retrieval-Augmented Generation (RAG) technology.



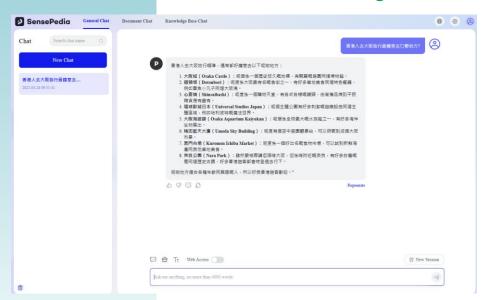


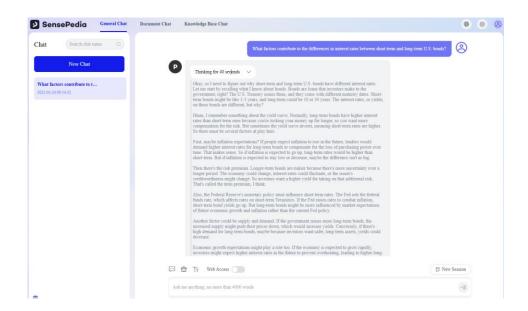


General Chat

Engage in conversations on a wide range of topics, including history, science, and more.

- Continuous Conversations
- Prompt Customization
- Web search
- Supports Cantonese/Traditional Chinese/Simplified Chinese/English Input
- Multimodal Capabilities
- Chain-of-Thought

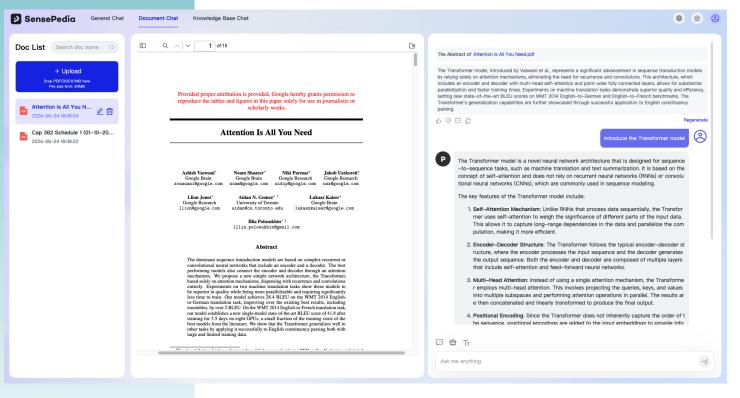






Document Chat

Upload document, SensePedia will generate an abstract and allow users to ask questions about the document, providing detailed and relevant answers.



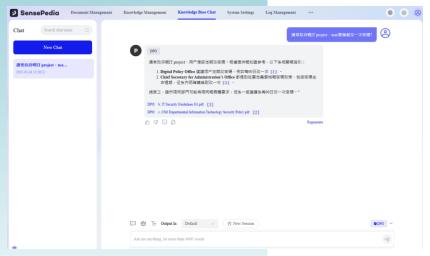
- Support PDF, MD, And DOCX Formats
- Document Preview
- Automatic Abstract Generation
- Document-Based Conversation

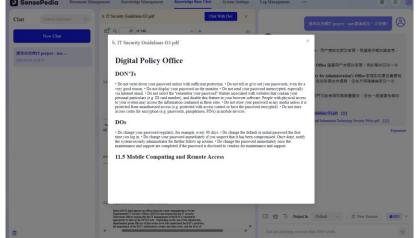


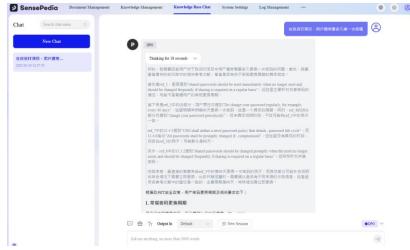
Knowledge Base Chat

Q&A based on defined knowledge base, provides answer references with document previews and relevant paragraphs

- Create Custom Knowledge Base, Including PDF/MD/DOCX Files
- Start Chat By Selecting Knowledge Base
- Reference cross checking
- Supports Cantonese/Traditional Chinese/Simplified Chinese/English Input
- Chain-of-Thought

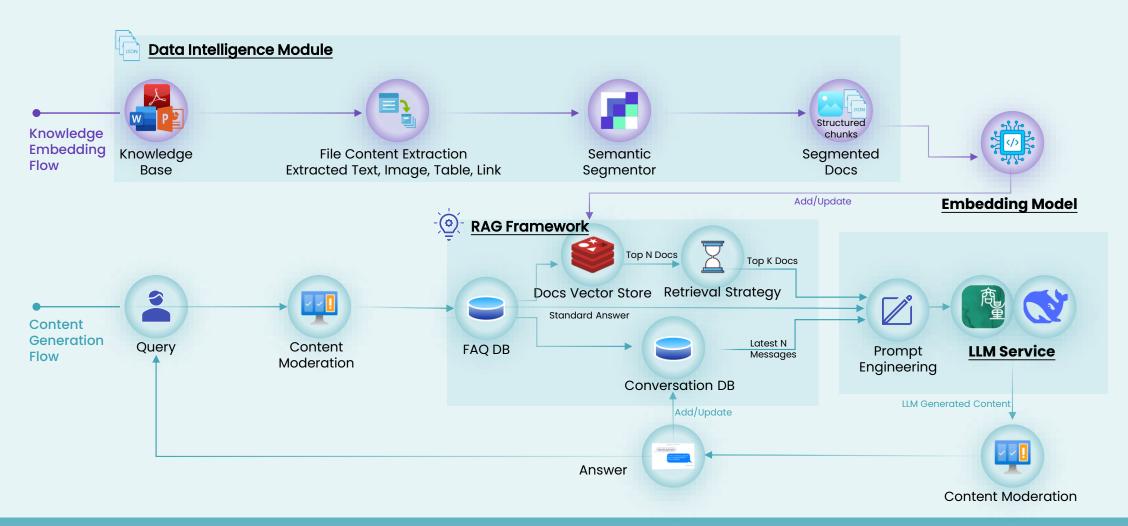






APPLICATION FLOW





KEY COMPONENTS





Data Processing Toolkit

Efficiently to turn unstructured documents into structured chunks



Embedding Model

Private knowledge database Hallucination elimination



Large Language Model

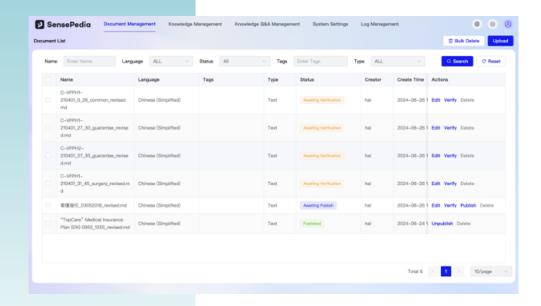
Personal customer service Sentiment management

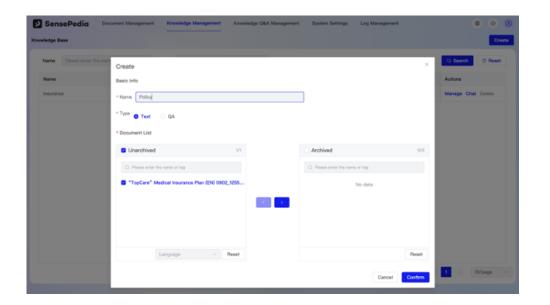


Knowledge Base Management

Create customized knowledge base before utilizing the Knowledge Base Chat

- Support PDF, MD, And DOCX Formats
- Supports automatic document parsing and segmentation with manual verification.
- Supports uploading specified format XLSX files for Questions & Answers list.
- Supports selecting uploaded documents for knowledge base creation.





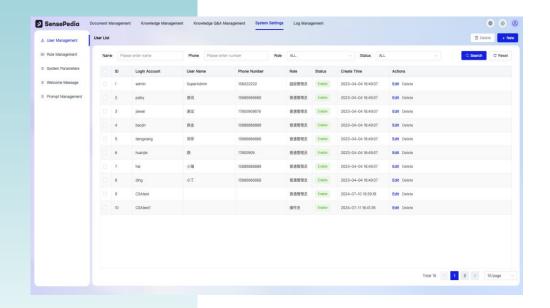


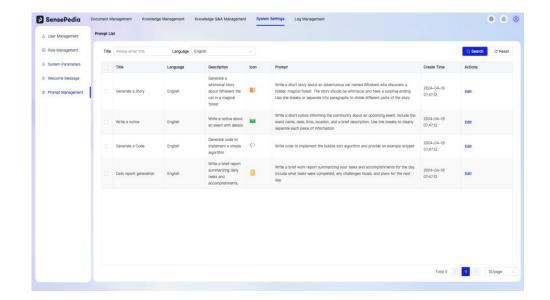
System Config

User Permissions System

- **Superadmin**: Can create admin accounts, configure system parameters, and set welcome messages.
- **Admin**: Can manage documents and knowledge bases, and create regular user accounts.
- **User**: Can use the knowledge bases created by Admins for Q&A.

The system allows flexible configuration of welcome messages and quick question cards.





COMBINATION



Scenario

Advanced

Standard

SaaS

LLM

On-Premises

SenseChat DeepSeek R1

On-Premises

SenseChat-Turbo DeepSeek 7B/14B Distilled QwQ 32B

HKSTP HPC
Cyberport AISC
SenseCore API

RAG

On-Premises

SensePedia



HKSTP HPC
Cyberport AISC

PRODUCT ARCHITECTURE



Application



Document Chat

Open API



RAG

LLM Service

Embedding Service

Document Parser

Retrieval Service

File Management

Knowledge Base Management

System Config

Log Management

Model

Embedding

LLM

HARDWARE CONFIGURATION



Nvidia A100 for LLM

Operation System:

Ubuntu 20.04.6 LTS

GPU:

NVIDIA A100-SXM4-80GB

- SenseChat-Turbo/ DeepSeek
 7B/14B Distilled/QwQ 32B: 2card
- SenseChat LLM: 8-card

CPU:

Intel(R) Xeon(R) Platinum 8358P CPU @ 2.60GHz * 2 sockets 32*2

Disk

- Diskl for operating system:
 512GB SSD *2 (RAID 1)
- Disk2 for model: IT NVME SSD * 3 (RAID 5)

Memory:

• IT DDR4

Huawei 910B for LLM

Operation System:

EulerOS 2.0 (SP10)

GPU:

910B 64G VRAM * 8

- SenseChat-Turbo/ DeepSeek 7B/14B Distilled/QwQ 32B: 2card
- SenseChat LLM: 8-card

CPU:

Kunpeng-920* 4

Disk

- Disk1 for operating system:
 512GB SSD *2 (RAID 1)
- Disk2 for model: IT NVME SSD * 3 (RAID 5)

Memory:

1T DDR4

NVIDIA for RAG & document parsing

Operation System:

Ubuntu 20.04.6 LTS

GPU: NVIDIA A100-SXM4-80GB * 1/ NVIDIA A40-48GB * 1/ NVIDIA-L20 * 1/ NVIDIA A10-24GB * 2/ NVIDIA T4-16GB * 4

CPU: Intel(R) Xeon(R) Gold 6278C CPU @ 2.60GHz * 1 Sockets 26*2

Disk

- Disk1 for operating system:
 512GB SSD *2 (RAID 1)
- Disk2 for model: 2T NVME SSD *3 (RAID 5)

Memory:

1T DDR4

USE CASE: AI ASSISTANT @ HK INSURANCE COMPANY

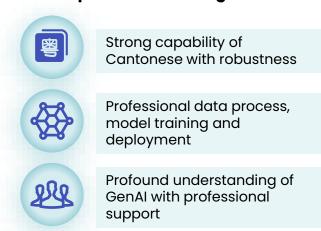


Value Proposition

Methodology
 Leveraging customer files to develop an all-in-one knowledge center and activate the data in

Competitive Advantage

daily use



Project Value
 Vertical LLM application helps decrease professional labor cost.

Product Feature and SPEC

Deliverable

POC: Conduct a knowledge center based on the files provided, and build up an Al Bot using RAG

- Deployment model
 Cloud based
- Capability
 User will ask questions in natural language and get answers and precise reference from the AI Bot without illusion.





- The customer is one of the most prestigious insurance companies in Hong Kong.
- Starting from a single file, the project is gradually involving 115 files covering main types of Insurances like Accident, Health, Disability, Critical Illness and Death.
- The project will potentially benefit thousands of the employees and agents as the scope is expanding.

USE CASE: AI BOT @ TELECOMMUNICATIONS COMPANY

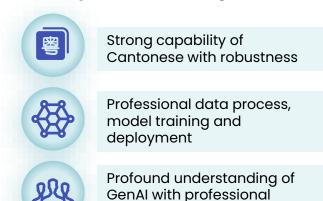


Value Proposition

Methodology

Leveraging AI BOT to generate quick and accurate answers to gradually decrease human labor at the call center

Competitive Advantage



support

Project Value

Purely based on call center scenarios, increase modal understanding towards Cantonese, raise the direct usability rate.

Product Feature and SPEC

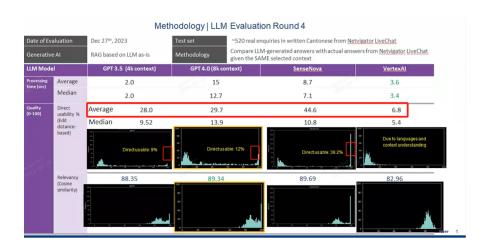
Deliverable

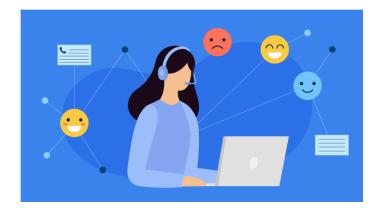
POC: Q&A AI BOT for the call center at Whatsapp

Deployment model
 Cloud based

Capability

By finetuning LLM, the direct usability rate of Generative AI was increased significantly, surpassing GPT4 and it's still growing.





- The customer is one of the largest telecommunications companies in Asia.
- Their call center team comprises over 6,000 service personnel, serving not only their own company but also providing services to other companies, well-known among customers in the Asia-Pacific region.

USE CASE: DOCUMENT PREPARATION @ HK GOVT



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Objectives

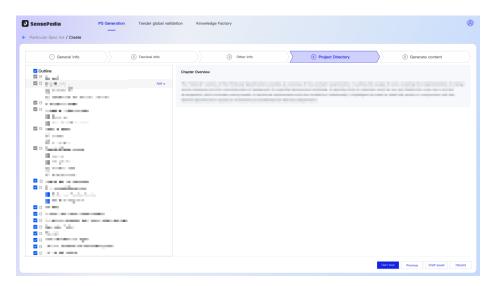
They face heavy workloads of text processing in reading and writing documents. Seek to enhance their document preparation process through the adoption of Al Assistant

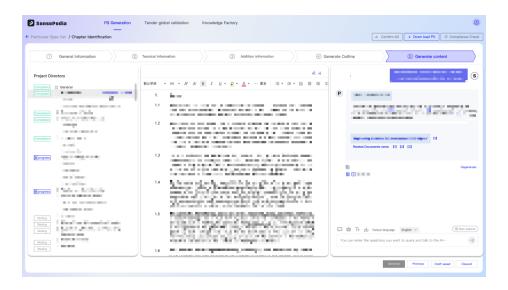
Challenges

Need to increase productivity by automating the generation of documents while ensuring compliance with the latest standards and maintaining confidentiality

Solutions

Built a comprehensive knowledge database trained on relevant documents with LLM model, and features for compliance checking and document drafting





SENSEPEDIA DEMO



