

INTELLICON LAB

AI Solution Introduction, 2024

Generative AI & Legal AI

DocuGPT & LawGPT

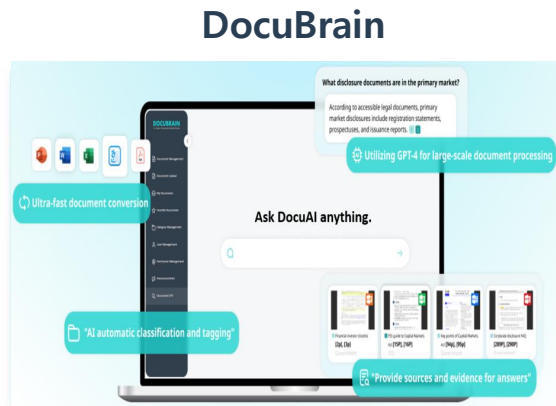
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At a Glance

Core Solutions of Intellicon

Convergence System of Document AI & LLM

- Winner of the Gold & Special Prize at the Seoul International Invention Exhibition (2023)
- Solution that combines Document AI, RAG, & LLM
- Capable of analyzing Big Document Data in real-time
- Conversational AI that analyzes documents & converts them into knowledge
- Analyzes all types of documents regardless of file format



DocuBrain



LawGPT

Asia's First Legal QA-LLM

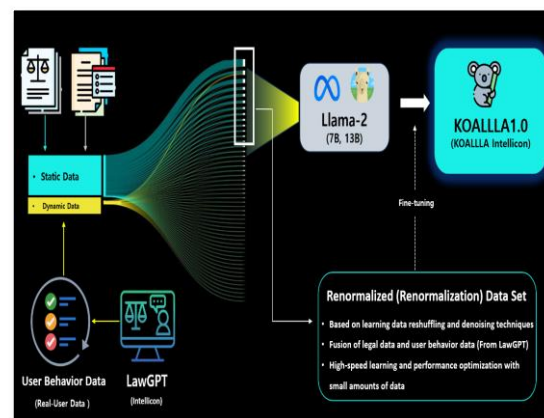
- Legal QA system that provides answers to legal questions
- All answers are supported by evidence (laws, precedents, documents)
- Equipped with an optimized AI module that eliminates hallucinations
- Currently used by Korea Electric Power Corp(KEPCO), Korea Occupational Safety and Health Agency(KOSHA), law firms, and others

Legal Knowledge Network Simulation

- Internationally patented & World-Class Product selected
- Provides visual answers to legal questions
- Network of laws, precedents, commentaries, & papers
- Allows users to simulate knowledge structures directly



U-LEX



KOALLLA(Law-specialized LLM)

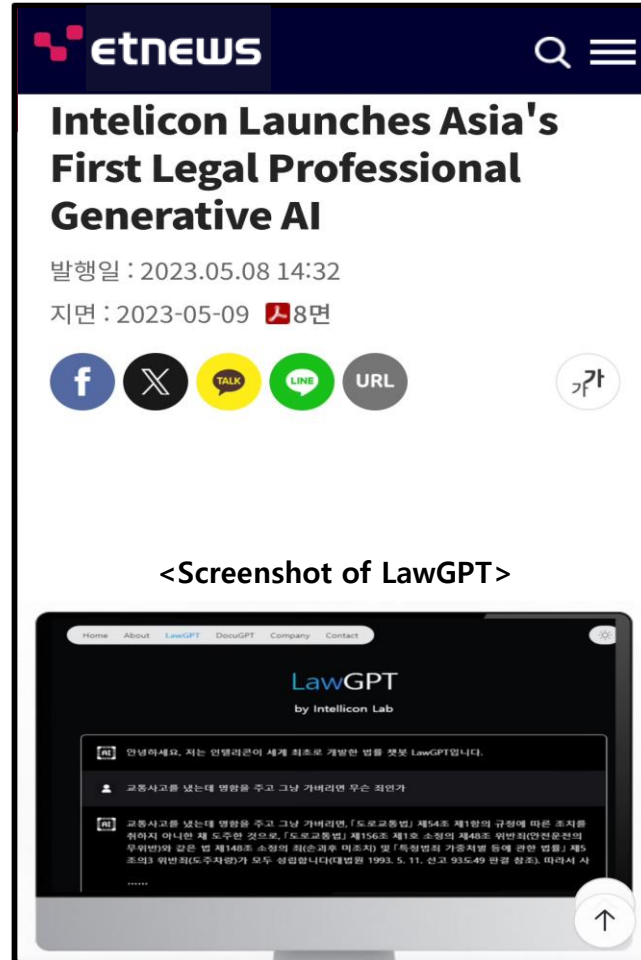
Korea's First Legal Specialized LLM

- Fine-tuning technology for Legal RAG optimization
- Data re-normalization technology to reduce hallucinations
- Learning technology that incorporates user behavior data
- Model that can be developed to meet the specific needs of individual organization.

Overview

LawGPT

"Development of Asia's First Legal GPT"



Report on Asia's First Launch (ETNEWS, May 8, 2023)



Broadcast on the Development of Legal GPT Based on Generative AI (SBS, May 2, 2023)



Broadcast Review of Legal GPT Based on Generative AI (Yonhap News, May 28, 2023)

Overview



Evidence-based Generative AI for Legal Queries with Citations from Laws, Precedents, Documents, and Knowledge

Chat GPT

질문: What offense is it to leave after a traffic accident by just giving a business card?

답변: In a traffic accident, parties must provide their vehicle number and contact information. Giving a business card is possible but not recommended.

Failing to provide contact information can lead to legal issues, as it may be interpreted as intentionally causing an accident or evading responsibility.

After an accident, immediately contact the other party, assess the situation, and contact insurance companies. Neglecting this can result in legal consequences.

- <ChatGPT>**
- Vague answer
 - No legal evidence provided for responses



Law GPT

질문: What offense is committed by leaving after a traffic accident, only giving a business card?

답변: **entry**

In a traffic accident, drivers must stop immediately and provide necessary assistance, as per Article 54(1) of the Road Traffic Act. Leaving after only giving a business card can constitute a hit-and-run offense under Article 5-3 of the Act on the Aggravated Punishment of Specific Crimes. If injuries occur, it may also violate Article 48 (duty of safe driving) and Article 148 (failure to take action after causing damage) of the same Act. (Reference: Supreme Court precedent)

Relevant Laws

- Road Traffic Act, Article 54(1)
- Act on the Aggravated Punishment of Specific Crimes, Article 5-3
- Same Act, Article 156(1) No. 48
- Same Act, Article 148

Provides highly precise answers based on Korean laws and precedents

Recommends or presents relevant legal provisions
Links to detailed legal content for further reference

- <LawGPT>**
- Highly precise answers
 - Provides evidence for responses (laws, precedents, etc.)

Overview

Korea's 1st Legal sLLM
(KOALLA, Feb 2024)



Korea's 1st Korean Legal sLLM
Developed Domestically

Gold Award
at International
Invention Fair
for DocuBrain
(Nov 2023)

Korea's First Multi-Document GPT Wins Gold Award

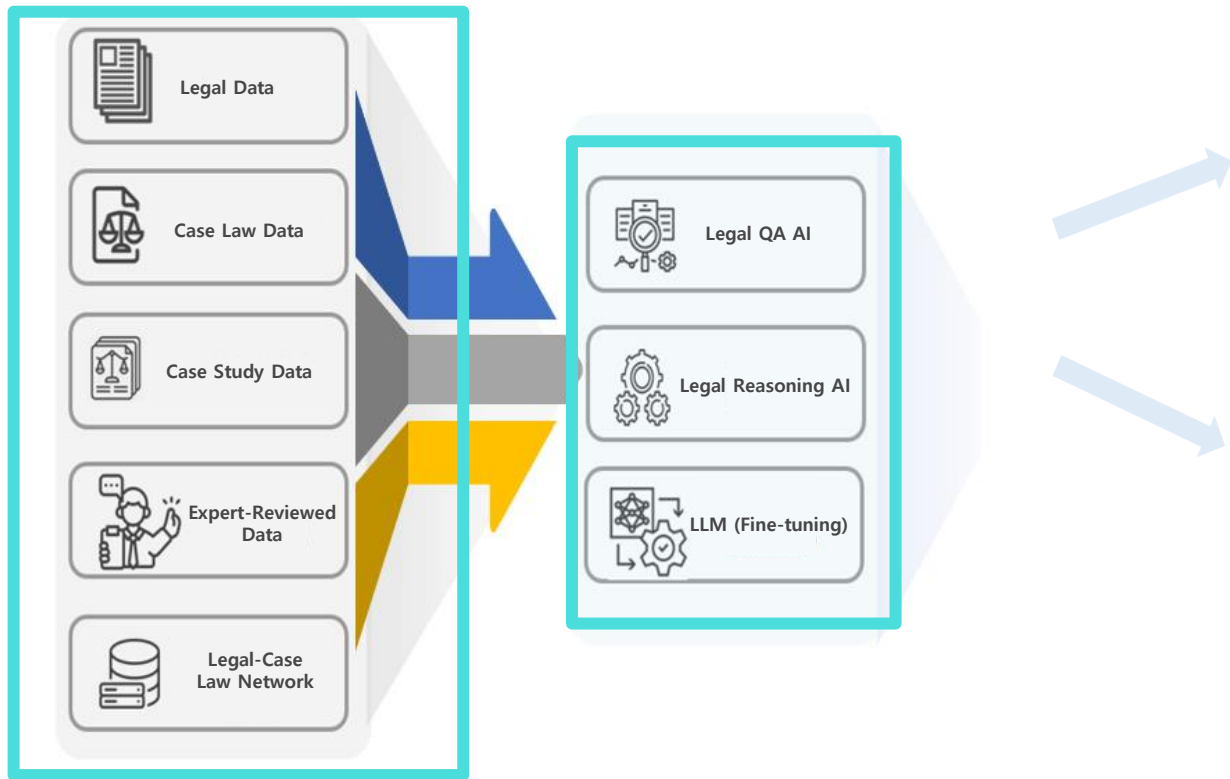
Overview

Answering-AI :: DocuGPT & LawGPT

Answering - AI

Intellicon's Legal AI System Based on Generative AI (LLM)

Hybrid of Legal AI System and LLM: Asia's First Legal AI Powered by Generative AI



Overview

DocuBrain :: A generative AI system for interactive search and analysis of all documents in the world

Dynamic GPT
Custom GPT with Client Data

Static GPT
General chatbot with Prompt Skills



What disclosure documents are in the primary market?
According to accessible legal documents, primary market disclosures include registration statements, prospectuses, and issuance reports.

Utilizing GPT-4 for large-scale document processing

Ultra-fast document conversion

Ask DocuAI anything.

AI automatic classification and tagging

Provide sources and evidence for answers

OpenAI Research Product Safety Company Search

Introducing ChatGPT

We've trained a model called ChatGPT which interacts in a conversational way. The dialogue format makes it possible for ChatGPT to answer followup questions, admit its mistakes, challenge incorrect premises, and reject inappropriate requests.

[Try ChatGPT](#) [Read about ChatGPT Plus](#)

Answering - AI
DocuBrain

ChatGPT

9:41

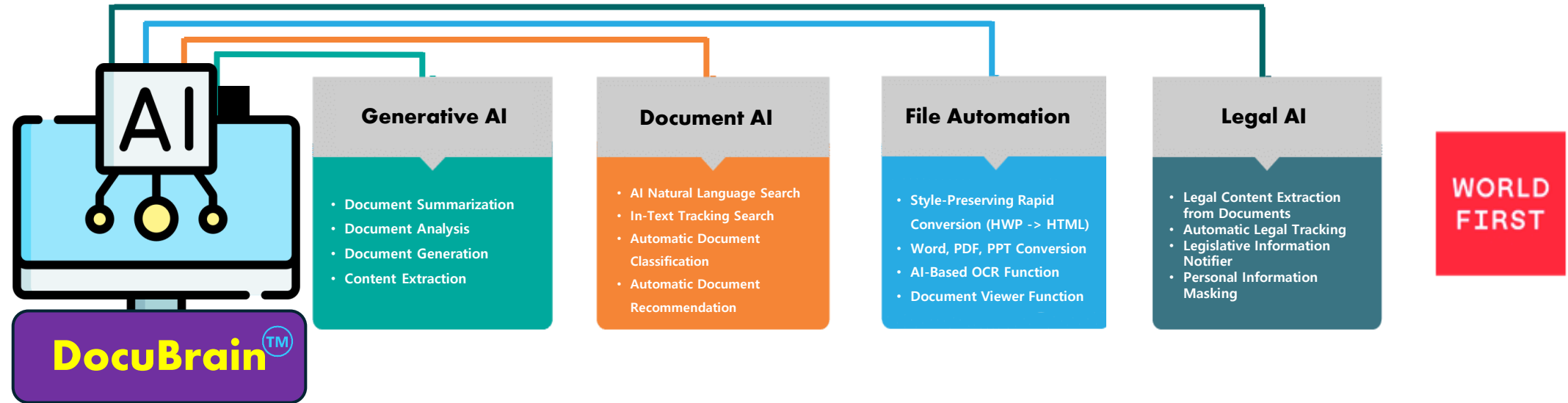
DOCUBRAIN

Q. Summarize documents about legal AI and its development in one sentence

Answer

The EU AI Act aims to establish a uniform legal framework for the development, deployment, and use of artificial intelligence systems in the Union to promote trustworthy AI while ensuring protection of fundamental rights and fostering innovation, with a focus on regulatory oversight, transparency obligations, and the establishment of AI regulatory sandboxes at national level for testing innovative AI systems before market placement.

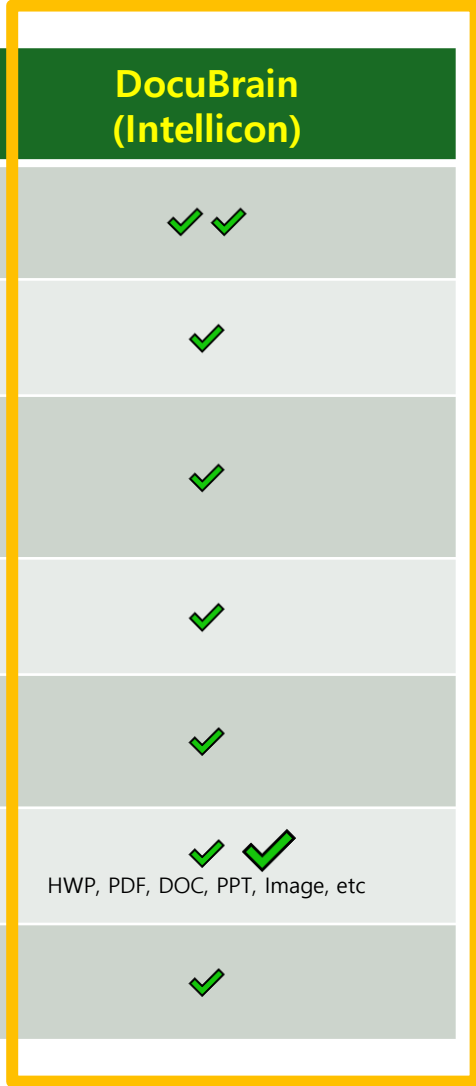
DocuBrain :: Modular AI (DocuAI + Auto Converter+ LLM +Legal AI)



What is **DocuBrain's** Competitive Edge?

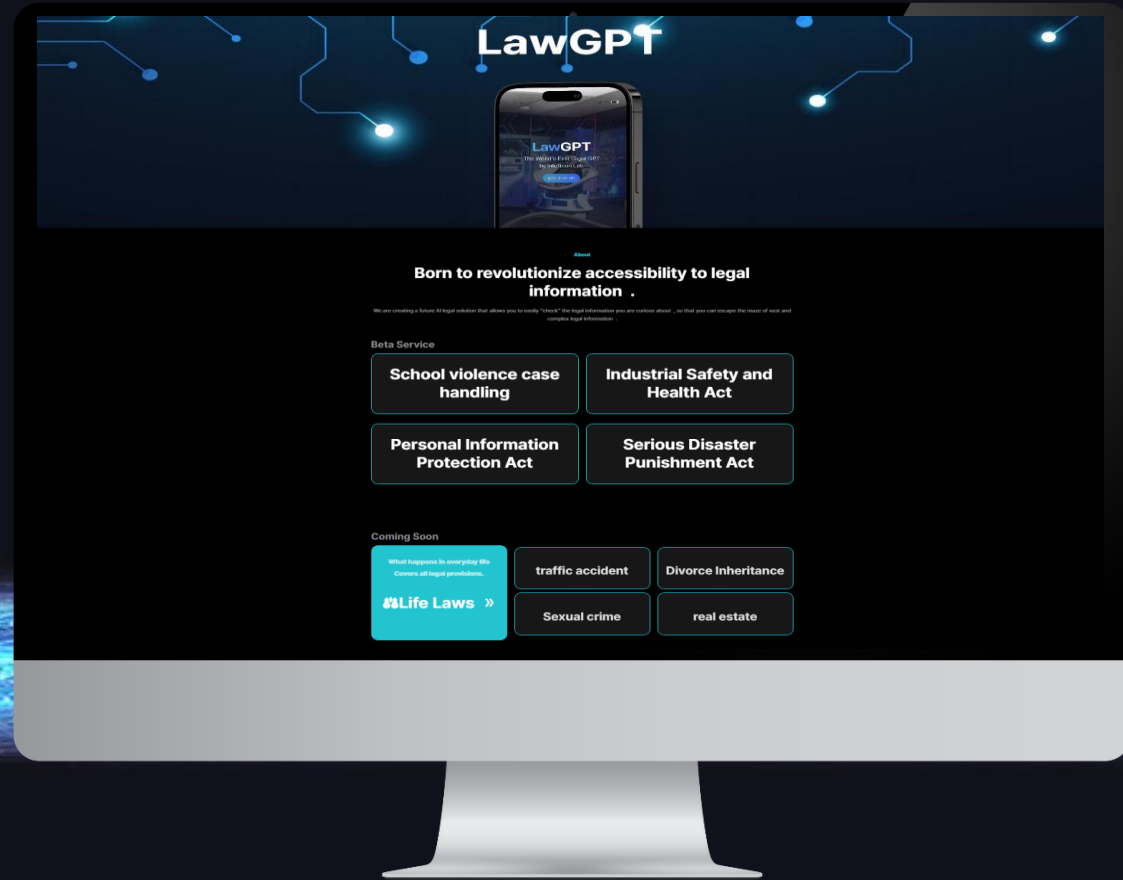
Comparison with similar document-based GPT (RAG method) services

Issue in LLM	ChatGPT	Trendy Service (Existing RAG-GPT)	DocuBrain (Intellicon)
Minimized-Hallucination	✓	✓✓	✓✓
External Knowledge	✗	✗	✓
User-Personal Document(real time)	✗	✓	✓
Multi-Document AI	✗	✗	✓
Document Auto – Converter(HTML)	✗	✗	✓
HWP-Document Process	✗	✗ PDF only	✓✓ HWP, PDF, DOC, PPT, Image, etc
Legal AI Hybrid	✗	✗	✓



Dual AI

LawGPT



Dual AI

DocuBrain



DOCUBRAIN

- 문서 관리
- 문서 등록
- 나의 문서
- 즐거찾는 문서
- 카테고리 관리
- 시뮬자 관리
- 관련 관리
- 공지 사항

Q. Tell me about the trends related to the classification system for the hazards of chemicals.

Answer

Regarding the trend of the hazard classification system of chemical substances, the domestic chemical classification and labeling standard trend is being investigated, and the Occupational Safety and Health Agency is promoting a cooperation project for unifying government agencies' GHS classification information. Internationally, the UN GHS global list development project is in progress, and information on projects related to OECD can be found on the OECD homepage. [1](#) [2](#)

Reference

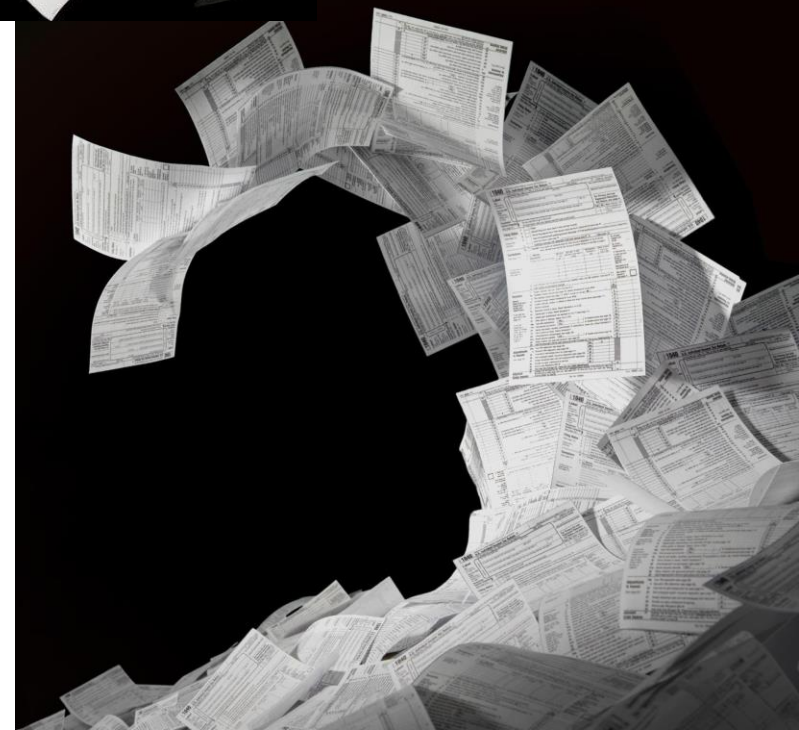
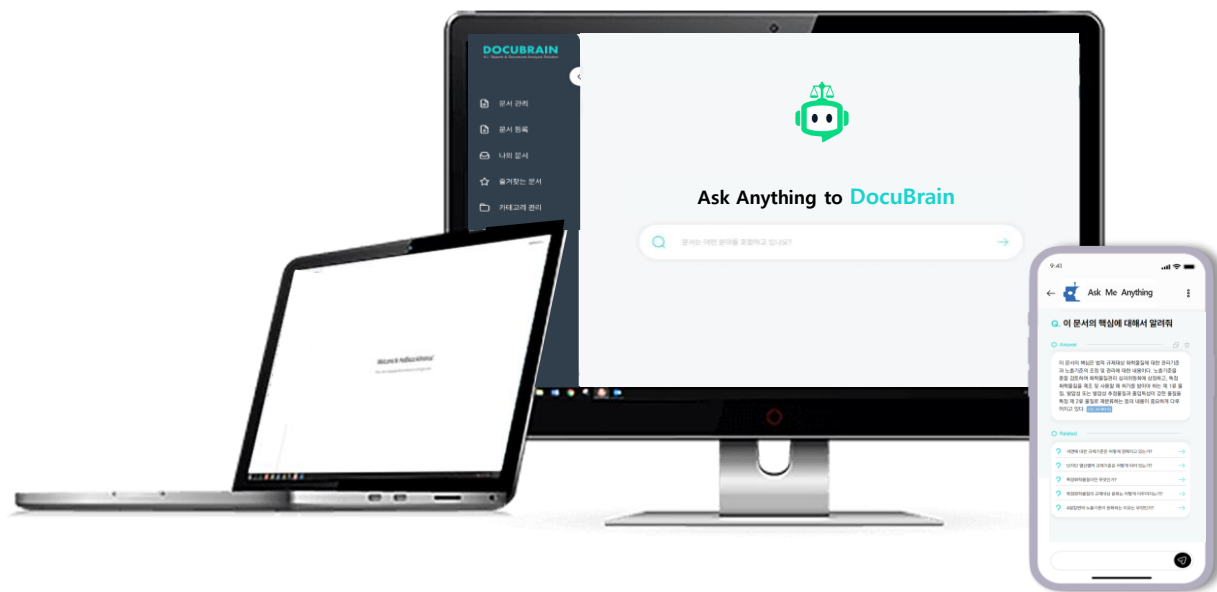
- 1 Study on the application of hazard classification criteria for target substances in material safety data sheets | [8 Pages] Publications > Research Reports > Chemical Research >
- 2 Study on the application of hazard classification criteria for target substances in material safety data sheets | [Page 17-15] Publications > Research Reports > Chemical Research >
- 3 Study on the application of hazard classification criteria for target substances in material safety data sheets | [Page 17-15] Publications > Research Reports > Chemical Research >
- 4 Study on the application of hazard classification criteria for target substances in material safety data sheets | [Page 3-4] Publications > Research Reports > Chemical Research >

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DocuBrain™

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Conversation With Your Documents



Summary

“Intellicon is the Top Leader in Generative AI & LegalTech”

- ✓ Secured AI source technology through 10 years of dedicated research
- ✓ Unparalleled technology born from winning the World Legal AI Competition (2016 in Japan, 2017 in the UK)
- ✓ Holds the most legal AI IPs, including international patents
- ✓ Ongoing expansion of client network to public institutions, law firms, and corporations
- ✓ Solution and consulting brand provided to public institutions such as the Constitutional Court, National Assembly, Gangwon Research Institute, Occupational Safety and Health Agency, and Korea Electric Power Corporation
- ✓ LawGPT technology that provides legal grounds (first developed in Asia, 2023)
- ✓ Multi-document based RAG-generative AI toolkit, DocuBrain (first developed in the world, 2023)
- ✓ Self-developed legal specialized sLLM (first developed in Korea, 2024)
- ✓ Holds the largest amount of legal big data in Korea (over 3.5 million cases)

Next GAI

Thank You!

THE END

I: Intellicon A.I.&LAW