AI Document Search and Comparison

Automatically search and compare content within documents, to quickly review similarities and differences.

42MARU

CUSTOMER

A large shipbuilding company in the world

This company designs and builds offshore platforms and ships to a custom specification using hundreds of different components from a large vendor list in order to meet specific requests from clients.

Shipbuilding presents complex design and build challenges that rely on expertise across multiple departments. Throughout the process, the company exchanges many documents with clients, including product specifications and Requests For Proposals (RFPs).

CHALLENGES

Constructors receive long Requests for Proposal from owners when asking for new projects.

A customer-facing team is responsible for reviewing the request and comparing it with the list of features from their standard specification, which are known capabilities for the company, to identify opportunities and limitations.

Manually cross-checking RFP documents usually takes days to review and answer. Meanwhile, the customer is awaiting a reply and design teams are suffering with this bottleneck.

Answering customer requests quickly and accurately is top priority.

42MARU SOLUTION

1. Documents are ingested, extracting and indexing content and text information

2. Automatically highlight similarities and differences between related passages across documents

3. Generate list of accepted terms and exceptions, for attention or internal review

Document comparison against a standard and follow up actions

APPLIED TECHNOLOGY

Natural Language Understanding tries to deduce what questions mean, regardless of the way they are expressed, allowing users to interact with the computer using natural sentences.

NLU

Semantic search tries to understand the user's intent instead of keyword matching alone. Topics and concepts can be linked and related information can be suggested.
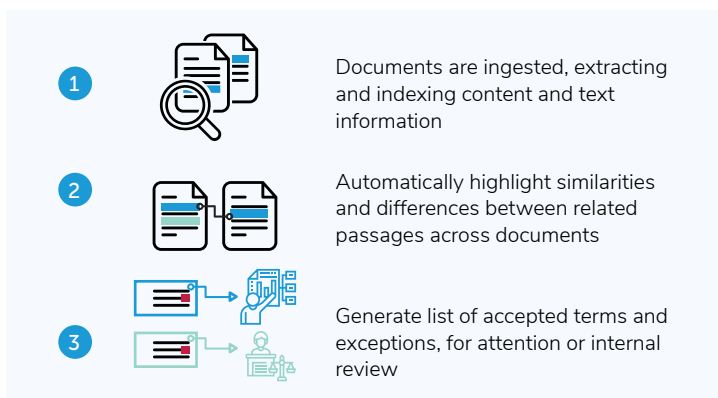
Semantic

Paraphrasing allows search results to include words not directly used in the query. It recognises that there may be multiple ways to ask a question, that all refer to the same answer.

Para-phrasing

Information Retrieval allows for data, in various forms, to be organised for easy access and indexed for quick retrieval. Search decides what content, and in what form you see whenever you enter a query.
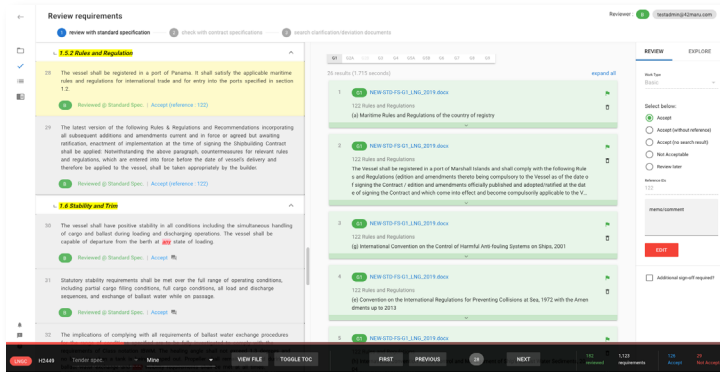
Search IR

Unstructured data → Useful for business

42MARU SOLUTION (CONT)

42Maru automatically scans client-submitted Project Specifications, Request for Proposal and other documentation, cross referencing the standard specification to highlight exceptions.
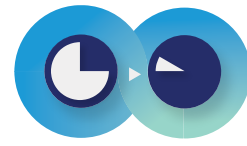
It also reviews previous contracts to see if any of the exceptions were solved and applied to previous projects, before determining project feasibility.

This process automatically determines whether the project is viable and which areas need to be renegotiated based on the mismatches.

The solution compares the *Request for Proposal* to the company standard requirements

BENEFITS

Reduce time to manually review client or company documentation

Respond to inbound customer proposals/documents automatically
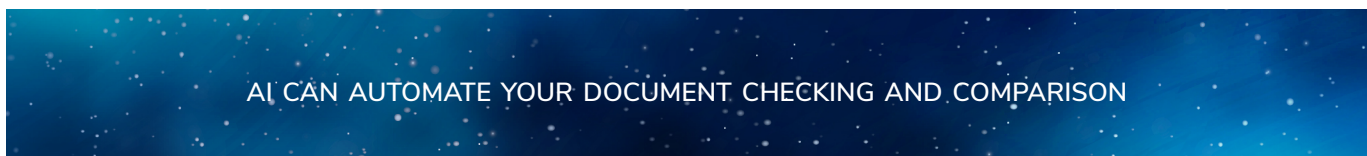
Documents that can be searched:
- Project outlines (Requests for Proposal)
- Product specifications
- Contracts
- Technical Documentation

OTHER APPLICATIONS

Compare the content, passages and sentences in any two documents that share a similar format.

Infrastructure, construction, vehicle manufacture
Comparing product documentation to ensure regulatory compliance before beginning a build

Pharmaceuticals, electronic manufacture
Patent documentation search for R&D departments to see what technologies match with key concepts, keywords

AI CAN AUTOMATE YOUR DOCUMENT CHECKING AND COMPARISON

42MARU

CONTACT US
sales@42maru.ai
www.42maru.ai

Find out how other customers are using AI Search

More case studies:
www.42maru.ai/cases