



A.I. Storage

For every Enterprise

Whitepaper

www.aispace.co

Alspace - An Introduction

Alspace (pronounced as 'i'space) is the Next Generation of A.I. powered Enterprise Storage. This is where we infuse artificial intelligence into all your digital assets (documents, images, audio and video). Truly democratizing A.I. by making it available to business end-users.

ENABLING AI-INFUSED DIGITAL TRANSFORMATION



Alspace is an enterprise storage, collaboration and document management platform that is infused with A.I. to help businesses digitally transform into the Age of Artificial Intelligence.

For the first time ever, you will be able to index and search inside all your documents, images, audio and video in a single platform using the World's First Unified Search Engine. Beyond Search, you can now apply AI to documents and images for analysis. This will open up a whole world of future possibilities, especially in the Big Data.

AISPACE IS WHAT ALL STORAGE SHOULD BE - INTELLIGENT!

Why Alspace?

The real question should be: why do we need Artificial Intelligence for storage? The answer is really simple. It is because...

SOME BENEFITS CANNOT BE ACHIEVED WITHOUT AI. IT'S JUST IMPOSSIBLE.

It is impossible:

- to manually summarise main points from thousands of documents
- to manually tag a vast library of images
- to manually extract knowledge (speech) from repository filled with millions of videos
- to index images, audio and videos and make them searchable without applying various kinds of A.I. first
- to generate huge amount of big data from all your digital assets manually

The reason why systems today cannot achieve all of the above is because they do not incorporate Artificial Intelligence in them!

One can argue that some of these tasks like tagging, transcribing can be done more accurately by humans. They are not wrong. However, we are generating more data than we can analyze manually. More importantly, your time can be better spent somewhere else, where you can be more efficient and productive. That's why you need A.I. for your storage.

Alspace is not just about the Artificial Intelligence. The real secret lies in our World's First Unified Search Engine

Since the advent of modern search technology in 1960s, humans have been perfecting the art of search for the last 50 years. However, the only format that the world still has difficulties with is video. At least until now. Alspace is on the forefront of this last frontier of search technology.

We are entering the Age of Artificial Intelligence. A.I. is being used on a daily basis in our personal lives. Shouldn't your storage also have A.I. to help you in your business? That is the purpose of Alspace. We believe you should

STORE YOUR DATA BETTER WITH A.I.

3 Categories of Artificial Intelligence

#1 Document A.I.

DOCUMENTS ARE THE LIFEBLOOD OF EVERY ENTERPRISE

Summarises main points of a document without even reading it. Imagine the amount of precious time you save!

This can only be done using AI and is especially useful if your work is document intensive!

The Alspace Document AI capability allows you to quickly identify the main points of a document without the need to even read the document. You can use Alspace Document AI to extract information about people, places, events, and much more mentioned in text documents.

Moreover, not all digital document formats are searchable. In order to make the text searchable, you can apply Alspace's optical character recognition (OCR) and save it into a searchable PDF. Alspace's Document AI works in 2 ways:

- Text Analytics - understanding key elements in documents.
- Optical Character Recognition (OCR) - recognizing text in nearly 200 languages (available soon!)

#2 Image A.I.

EXTRACTING VISUAL DATA AND MAKING IMAGES DISCOVERABLE!

The biggest storage challenge for images is that you cannot tag and search them automatically. Alspace automates this process!

This can only be done using AI and is especially useful if your work is media intensive!

Current platforms that allows image search requires you to tag all your images manually! Alspace changes that by applying Artificial Intelligence to automate this process. Along with our Search Engine, we will index your images with tags created automatically and make them searchable! Alspace's Image AI works in 2 ways:

- **Computer Vision** - recognizing thousands of objects in 86 categories.
- **Optical Character Recognition (OCR)** – supports 200 languages

Alspace's computer vision engine analyzes images and return results based on thousands of recognizable objects, living beings, scenery, and actions. In cases where tags may be ambiguous or not common knowledge, our system provides "hints" to clarify the meaning of the tag in context of a known setting. More importantly, it provides attempts to provide context to what the image is about.

- **Tag visual features** - Identify and thousands of recognizable objects
- **Detect objects** - If detects over 20,000 objects
- **Describe an image** - Generate a description of an entire image.
- **Detect faces** - Detect faces and provide information like gender and age.
- **Detect image types** - Uses domain models to identify domain-specific content.
- **Detect famous people** - Use a domain model to determine there is a famous person.
- **Detect color scheme** - Analyze colour usage and identify the dominant colours

#3 Video A.I.

NO STORAGE CAN SEARCH INSIDE VIDEOS TODAY. AISPACE MAKES THIS A POSSIBILITY!

This can only be done using ai and is especially useful if your work is media intensive!

Current search engines can only search for "Title" and "Metadata" of videos that is keyed manually. With Video AI, we are now able to extract data from videos. Adding this data to our World's First Unified Search Engine, we are able index and search the content INSIDE the videos. Thus, making your organization's media (audio and video) searchable automatically!

This instantly unleashes the knowledge embedded inside your media assets!

The technology behind our Video AI is a powerful media processor that performs Speech-to-Text conversion on video or audio format. This media processor leverages Deep Neural Net (DNN) based Speech Recognition technology.

World's First Unified Search Engine

Alspace is probably the first storage platform in the world that has the ability to "Search Everything" (documents, images, audio and video files) in a single storage platform! This is achieved by using the World's First Unified Search Engine.

1. DOCUMENT SEARCH

Our powerful search engine can SEARCH your documents in more than 100 languages!

Support over 50 common document formats: MS Office 2007+ (.docx, .xlsx, .pptx), HTML (.aspx, .asp, .jsp, .htm, .html, etc), PDF, TXT, RTF, CSV, OOXML / MS Office 2007+ (.docx, .xlsx, .pptx), ODF (.odt, .ods), XML, ZIP, etc.

2. IMAGE SEARCH

Our engine can return tags based on more than thousands of recognizable objects, living beings, scenery, and actions.

In cases where tags may be ambiguous or not common knowledge, our system provides "hints" to clarify the meaning of the tag in context of a known setting. A collection of content tags forms the foundation for an image "description" displayed as human readable language formatted in complete sentences. Tagging is not limited to the main subject, such as a person in the foreground, but also includes the setting (indoor or outdoor), furniture, tools, plants, animals, accessories, gadgets etc.

Supported Image formats: .jpeg, .png, .gif, .bmp.

Note: For image search, the only current supported language is English.

3. AUDIO AND VIDEO SEARCH

Coming Soon! More information will be released in due time.

Searching documents is nothing new as this technology has been around for decades. However, when it comes to videos, current search engines can only search for "Title" and "Metadata". But the real content is INSIDE the videos. Our Unified Search Engine is able to search Speech inside audio and video clips.

Supported Video and Audio file formats: .wav, .wma, .wmv, .mp3, .mp4, .m4a, .aac.

4. ENTERPRISE GRADE SEARCH FEATURES

#1 High-speed index-based search engine

Searches through millions of words across thousands of documents of multiple types in a fraction of a second.

#2 Phrase matching

Allows portions of a query to be surrounded with quotes causing the contained keywords to be treated as an exact phrase, search results will contain the words in the phrase in precise order.

#3 Smart search result summary & keyword highlighting

The search result summary is an extract of the original text showing as many of the search keywords as possible. Summary can include multiple extracts from various parts of the document when searched words are not close enough.

#4 Stemming/Lemmas - Word form variations are searched and ranked lower

Word variations are (optionally) included in the search - For example, the search term "downwards" yielded results with the same stem "downward" which were ranked lower (optional through an adjustable factor). Similarly a search for "downward" would yield results with "downwards", etc.

#5 Complex expression support; nested groups, partial matching, NOT, OR and AND

Brackets indicate grouping, "-" indicates a NOT operator, OR indicates OR logic, AND indicates AND logic (implicit when not specified). Groups can be nested to any number of levels, and may contain any legal expressions (phrases, NOT, OR, AND). Wildcards * can be used to indicate partial matches.

#6 Unicode and non-English language support

Crawls and indexes pages encoded in most encodings (Unicode, UTF-8, ASCII, Cyrillic, Greek etc.) Page encoding is determined by server response or if in the page meta tags. All UI text's are localizable.

Security

1. DATA SECURITY

We employ multiple layers of military grade AES 256-bit encryption technology to ensure the security of your files and data. As a result, our encryption is more sophisticated than any typical cloud storage.

In plain words, this means that in the very unlikely event that your files are compromised, your files are encrypted in such a way that they are unbreakable, and thus, totally useless to the perpetrators. Despite the complex nature of deploying multiple layers of encryption, this methodology offers one of the best (if not the best) form of data security in the Cloud. In addition, all communications are done over SSL to complete the entire security loop.

2. APPLICATION SECURITY

On top our data security measures, we apply our proprietary application level 3-Tier Security which is targeted at User Account, Folder and File levels.

Collaborate with others with "editor" or "viewer" permission and where their domain is trusted. You can also un-share or delete folders and files based on schedule (known as document expiration feature), and even enforce greater security protection to your sensitive shared folders or files with hierarchy of passwords.

3. AUDIT LOG

For System Administrators, You can track all actions users make in the system. These actions include:

- Uploads/Downloads
- Invite Collaborators
- Create/Delete Folders
- Create/Delete Files
- Share/Remove Folders
- Share/Remove Files
- Assign/Remove Password to Files/Folders, Etc

For USERS, you can track all the following actions:

- All activities by yourself, AND
- All activities by OTHER USERS within the shared folder.

Document Life-cycle

1. VERSION CONTROL AND HISTORY

Keep track of your latest file version while maintaining all your previous copies. Forget about keeping track of your documents (drawings, technical draft documents, etc.) manually. With Alspace, users will be able to retrieve not only the latest copy anytime, anywhere. We will also keep ALL previous versions!

2. CHECK-IN / CHECK-OUT OF DOCUMENTS

You can check-out a document so other collaborators cannot edit or see your changes to the document. The checked-out document is also 'locked' so that others cannot make any changes.

When editing is done, you can upload a new version and check-in the document back into your Alspace so that other users who can access the document can see the new version and edit the document if needed.thers with "editor" or "viewer" permission. You can also un-share or delete folders and files based on schedule (known as document expiration feature), and even enforce greater security protection to you

3. TRACK ALL DOWNLOADS

Once you shared your files, you can even track the number of times your file(s) has been downloaded! Very useful if you want to verify that your file had been downloaded when shared!

4. AUTO-DELETE FILES/FOLDERS

If you have a file/folder that you want to be deleted on a certain date, you can easily do that too with the auto-delete function.

5. AUTO-EXPIRATION FILES/FOLDERS

You only want to share a file or folder for a limited time? No problem! You can set an auto-expiration date for the sharing and Alspace will automatically take the file/folder down for you.

6. FOLDERS

Create and organize multiple layers of folders replacing your file server with an online company-wide file system

Document Life-cycle

1. "BUSINESS PARTNER" USER ACCOUNT

Other than "Internal User" user account type, we allow you to create user accounts for "Business Partners" (External Users). The key difference is that "Business Partner" accounts are isolated from the rest of the "Internal Users" accounts. By allowing Business Partners access, you can build stronger ties and ease communications between parties.

Examples of such usage would be Projects, Marketing department sharing collaterals with PR agencies, with Key Customers to maintain close relations, etc.

2. COLLABORATION WORKSPACES

Create shared workspaces and easily invite team members to upload files and collaborate online. Documents and files are always accessible anytime, anywhere.

3. FILE / FOLDER SHARING

Easily share large files both within your company and with external partners replacing FTP software and email attachments. You can either choose to share a single file or an entire folder.

4. #SHAREAFILE (FILE REQUEST)

Ever needed a file from someone but the file was just:

- too LARGE to be sent via email?
- too SENSITIVE to use a 3rd party public file transfer app?

The #ShareAFile is a file request feature that specifically addresses this problem! Simply send an email request using #ShareAFile and person whom you are requesting from simply click one a link to upload files. For added security, we even password-protect each individual file request.

5. MESSAGE TEAM MEMBERS

No access to email? You can now send a message to any of your team member within Alspace.

Contact

Alspace is fully owned by Babbobox (www.babbobox.com).

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Important Note:

- **Asia** - We are partnering Ricoh Asia Pacific in making Alspace Cloud available in 9 Asian countries - Australia, Hong Kong, Malaysia, New Zealand, Philippines, Singapore, Taiwan, Thailand and Vietnam.
- **Rest of the World** - If you would like to have a private instance of Alspace, there are 50 regions around the world to select from.

===== END OF DOCUMENT =====