

# AI-Powered DocQmentor™



## Overview

TechStar has created a fully automated digital document service that utilizes the latest advances in Artificial Intelligence for companies that need to scan, sort, extract data, and store documents consistently. Once stored, data from these documents can be retrieved in seconds, even in the most extensive document collections.

## Benefits of AI-Powered DocQmentor™

TechStar has also enabled photo archiving using AI metadata. Many organizations have photo databases of products, client locations, previous work completed, or even archives of materials and projects. DocQmentor allows the folders to be the metadata. For example, imagine an Architecture firm takes photos of all the work they have completed over the years.



### Automatic Triggers

TechStar's AI - Powered DocQmentor™ system monitors folders that are used for processing. Move a document into the folder by scanning directly to the folder or simply dragging and dropping the form into the folder. The automation process kicks off without any other interaction.



### Security

AI - Powered DocQmentor™ is built on top of your security infrastructure, ensuring that sensitive documents never leave secured access within your network. Documents marked for no secure consumption can be stored publicly to be searched and indexed by anyone using a browser.



### Non-Proprietary

TechStar builds the AI - Powered DocQmentor™ system on standard systems without using custom coding or configurations. TechStar provides clients training on modifying their own AI models to teach the AI - Powered DocQmentor™ to recognize new forms for processing. This training allows organizations to build out extensive document recognition libraries without re-engaging TechStar every time a document format changes.



### Auto Renaming

Scanned documents often have cryptic naming conventions applied to them, like [Scan023454.pdf](#). AI - Powered DocQmentor™ can use the document's metadata to create logical descriptive names that can be automatically applied to the record before it is saved in its final storage location. For example, [James-Symth-Chicago-IL-Taxes-2020.pdf](#).



### Extract Data

AI - Powered DocQmentor™ uses advanced Artificial Intelligence and Machine Learning algorithms to extract data from your documents. The data can be typed or in handwritten form.



### 0% of Confidence

The AI - Powered DocQmentor™ system can also provide a score representing the % of confidence determined on handwritten data extraction. Confidence scores for fields can be averaged together for the document. Any average below a target threshold can be designated for manual review and moved to a separate processing folder.



### Auto Sorting

Once the metadata is added to the document, TechStar's AI – Powered DocQmentor™ can use the metadata to reroute the form to a consistent storage location.



### Updates to Data

All metadata can easily be changed manually after storage by right-clicking the document, listing the file's properties, and correcting the text for any metadata field.



### Meta-Tagging

The extracted data is then reapplied to the document as properties (metadata) that can be indexed and searched.

## Techstar's AI – Powered DocQmentor™ can save companies significant amounts of money in yearly Cost Savings.

A doctor's office gets an e-mail from a new patient who has filled out the new patient form. In one section, it asks the patient to list all previous medications taken, and in another, it asks about medical history. Using the older system, the staff at the physician's office would then print out the e-mail, then take the printed e-mail to the scanner, scan it, and copy the scanned image back into the filing system under the patient's SSN. Sometimes the new patient would show up with the hard copy form already printed out.

Using TechStar's AI – Powered DocQmentor™ system, the patient coordinator would drop the PDF form from the e-mail attachment into a folder on their desktop. This folder would be automatically synced with the AI – Powered DocQmentor™ system. As soon as the system detected a new document (within 120 seconds), it would pick the form up and pass it to the AI recognizer, automatically determining what type of form needed to be processed. If it could not recognize the document type, it would send an alert to the coordinator and reroute it to a folder for further processing and model coaching.

If the AI – Powered DocQmentor™ recognized the form, it would move the document to another folder that would then engage the appropriate AI model for that document type. It would examine the record and extract out all data fields defined in the model. In our example, this recognition would include all previous medications and the patient's medical history and SSN.

The AI would then append the metadata back onto the document, rename the form with a more descriptive title, and then send the record into the correct location within the storage system based on the type of document and the metadata within it.

The Doctor now sees over 6000 records. She further redefines the query to match the history (High-Blood Pressure) and the age group (over 60), and now the patients' records come back in a much smaller, more targeted sample size of 80 patients.

### Saving Costs

In the above example, printing out attachments every time a patient submits a new patient form drives up the costs of toner ink, paper, consumables, and the servicing of the equipment. The time it takes for the coordinator to print out the form, put it in the scanner, and process it also could be avoided with the AI – Powered DocQmentor™ system. Using AI – Powered DocQmentor™, the coordinator would save the file to the folder on the desk and then forget about it. The AI systems would typically take only a minute to determine which form, extract all the data, and save the document into its final destination.

Users can even dump thousands of documents into the folder at once, and minutes later, they will be processed and stored automatically with all their metadata attached.

Because the AI – Powered DocQmentor™ system is built on industry-standard software (like Microsoft Office365), TechStar can have the system deployed in a fraction of the time and at a fraction of the cost of competitors systems.

### Demo

To see a live demo of the AI – Powered DocQmentor™ system, please contact Jim Staley at [JStaley@techstargroup.com](mailto:JStaley@techstargroup.com)

