

A US based business and intelligence consulting leveraged the power of Machine Learning to transform its data entry process.



Discover how a state-of-the-art architecture reduced TAT for a business and intelligence consulting startup from days to seconds with Microsoft Azure.

Client's Challenge

Being one of the key players in the insurance industry, the Client received a myriad of heterogeneous financial data, as PDFs over emails, for computation and analysis. The client was thus bound to manually enter all that data from PDF to the Azure SQL database. Needless to say, this was a tedious process with a high probability of errors. Given the criticality of financial data, the client could not afford to make any wrong entries. Moreover, the client also had no information about when to upload the PDFs in a File Server, therefore many-a-times there was a delay in entering the data in the SQL table. And with the surge of incoming PDFs from its customers, it became tedious for the client to keep its processes running manually.

Working With Henson Group

The Henson Group (THG) began as a service integrator and 16 years later is an award-winning CSP partner. The group specializes in cloud computing with a major focus on Microsoft Azure. With the group's technology expertise, they offload IT workloads, manage client servers, and upgrade existing packages. As a premier provider of Microsoft licensing and managed services, THG was able to resolve the Client's issues with the help of Machine Learning.

Azure Cognitive Services like Form Recognizer analyzed a batch of PDF files. Initially, the Form Recognizer was trained by marking all the right values against different tags to identify data. Once the process was run multiple times, its accuracy to read and identify different types of PDFs increased. Azure Logic App was used as a trigger to notify when the PDF was to upload in the Azure Storage Account. The Azure Storage Account would further trigger Azure Function for processing and copying the final data to Azure SQL Database. To do so, THG used Python code to convert the JSON output extracted by Form Recognizer into Azure SQL to bring data homogeneity.

Meaningful partnership

The Henson Group, a Microsoft Gold Partner, worked relentlessly to offer its full support to the Client by automating the complete process of data entry; right from triggering the process up to saving the data in Azure SQL. Doing so saved the client's time from days to mere seconds. As Machine Learning drove the processes, its accuracy grew exponentially. Moreover, as most of these Azure services were serverless, the client was charged only when it required services, thereby saving its costs as well.

Why Microsoft Azure?

Using Microsoft Azure platform turns nimble enterprises that provide business insights to independent insurance agents into future-ready business with robust processes. If the focus of your business is to harness the power of cognition, then Microsoft Azure is all that you need.



“I would recommend The Henson Group (THG) for delivering superior customer service. Not to mention, in my 15 plus years of experience, I have not come across any consulting with expertise as good as THG. THG offers dedicated resources to resolve critical issues at a fair price. As we celebrate our 3-year long journey based on trust, reliability, and transparency, I know it’s just the beginning.

Adam Crumrine, Director of Analytics, Client

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