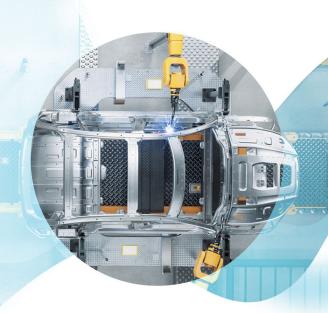
Next-Gen Supply Chain Solutions Provider Improves Search Accuracy Using GenAl

Pythian helped the company integrate Generative Al capabilities, made easy with Vertex Al Search and Conversation on multiple data sources in their internal Google Sites, creating an app to index HTML content and training new users on the platform's extensive features.



Overview

The company is a provider of next-generation manufacturing and supply chain software solutions in the cloud, delivering adaptive applications that help manufacturers rapidly respond and adapt to disruptions in supply and fluctuations in demand. Currently providing solutions to customers in 84 countries, the company seamlessly optimizes agility, efficiency, and resilience for their customers.

The challenge

As a long-time customer of Google Workspace and Google Cloud, the company currently uses Google Sites to store useful information for employees. The sites are indexed on Google Cloud Search, which allows employees to use keyword searching to find information. The company asked Pythian to determine whether Vertex Al Search and Conversation would improve and accelerate employees' ability to find answers to their questions.

Vertex Al Search and Conversation is an out-of-the-box search engine solution from Google Cloud's Vertex Al platform. It enables organizations to quickly build Generative Al-powered search engines for enterprise search capabilities to be made available to users (in this case, customers and employees). Vertex Al Search and Conversation can be customized to meet specific objectives while also maintaining access control, data privacy, and sovereignty. It enables users to ask follow-up questions, conduct multimodal searches, view summaries of top search results, and more.

Pythian partnered with the company to help conduct a test of Vertex Al Search and Conversation on five internal Google Sites: Human Resources, Finance, IT Help Desk (Internal & External), and Legal. Pythian had built a trusted relationship with the company, as they had worked together on previous engagements. Pythian identified and provided a custom solution to implement the project and trained the employees on effectively using Vertex Al Search and Conversation.

Industry

Manufacturing and logistics software

Location(s)

Santa Barbara, USA

Technologies

- Vertex Al Search and Conversation
- Google Cloud
- · App Engine
- Identity-Aware Proxy
- Cloud IAM
- Google Cloud Storage
- · Google Takeout

Overview

Pythian delivers solutions for a provider of next-generation manufacturing and supply chain solutions management in the cloud. The challenge was to determine whether Vertex Al Search and Conversation could improve employees' ability to conduct internal searches of information and enhance overall performance.



The solution

To implement the project, Pythian recommended that an internal administrator use Google Takeout to export HTML content from the Google Sites and then upload the content to a Google Cloud Storage (GCS) bucket. Pythian created a Vertex Al Search and Conversation app to index the HTML content that had been uploaded to the GCS bucket. While this approach could not be automated, it was effective for comparing the efficiency of Vertex Al Search and Conversation to Google Cloud Search.

Business outcome

The project exceeded the established criteria. Vertex AI Search and Conversation improved overall search accuracy, as it provided precise responses to queries and excluded false information. It was also able to connect and relate correlating copy (e.g., blending information from IT Help Desk and related applicable information from Human Resources). Employees were amazed at the power of using natural language to answer questions, due to Vertex AI Search and Conversation's ability to consolidate answers from resources on file. More importantly, the company was impressed that employees became more productive due to the speed at which they were able to answer questions.

Pythian demonstrated the technical feasibility of using Vertex Al Search and Conversation across the organization, and how it could be expanded to other types of data sources (e.g., databases, portals, documents). Pythian was also able to educate the company's employees on how to understand and use Vertex Al Search and Conversation to its full capabilities. The organization is now confident it can implement a more robust version of Vertex Al Search and Conversation that would tap into future updates from Google. They were also encouraged that Pythian would be able to help with training on future Al-related technologies.

Want to see similar results for your company?

Get in touch with a Pythian Google Cloud expert to see how our team can help.

Business need

The company, a long-time customer of Google Cloud, uses internal Google Sites to store useful information for employees. Google Cloud Search allows employees to use keyword searching to find information. They wanted to conduct a proof of concept of Vertex AI Search and Conversation on five internal Google Sites.

Solution/What Pythian did

Pythian recommended an internal admin use Google Takeout to export HTML content from the Google Sites and then upload the content to a Google Cloud Storage (GCS) bucket. Pythian created a Vertex Al Search and Conversation app to index the uploaded HTML content. They also trained employees on how to best use Vertex Al Search and Conversation.

Result/Key outcomes

Vertex AI Search and Conversation improved search accuracy and helped employees to be more productive. Pythian was able to demonstrate the technical feasibility of using Vertex AI Search and Conversation across the organization, and how it could be expanded to other types of data sources.

To get started with GenAl in your organization, engage with Pythian's team of Al experts by leveraging our workshop.

About Pythian

Founded in 1997, Pythian is a data and analytics services company that helps organizations transform how they compete and win by helping them turn data into valuable insights, predictions, and products. From cloud automation to machine learning, Pythian designs, implements, and supports customized solutions to the toughest data challenges.

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Contact us

+1-866-798-4426 | info@pythian.com | <u>Linkedin</u> | <u>X</u>

Offices

Ottawa, Canada Minneapolis, USA New York City, USA London, England Hyderabad, India Bangalore, India



