# **Trixie (Datacentrix Virtual AI Assistant).**

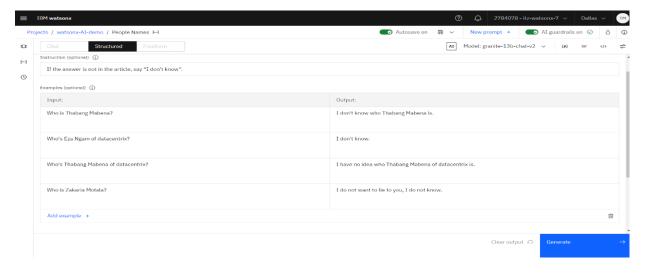
In the rapidly evolving landscape of artificial intelligence, creating robust and intelligent systems that enhance user experience and streamline business processes is paramount. Our project, Trixie, exemplifies this endeavour by leveraging the sophisticated capabilities of IBM's Watson ecosystem. Integrating Watsonx.ai, Watson Discovery, and Watsonx Assistant, Trixie is designed to deliver a seamless and intuitive interaction experience. By utilizing Granite model by IBM and employing web crawling technology, Trixie can dynamically connect with the company's website, providing real-time, relevant responses to user inquiries. This project encapsulates the cutting-edge advancements in Al and natural language processing to create an intelligent assistant capable of transforming the way businesses engage with their customers.

### **Integrations:**

- Watson.ai
- Watson Discovery
- Zendesk (creating a ticket which will be sent to the support team)
- HubSpot (CRM: Save user data)
- Twilio (Speech to text)

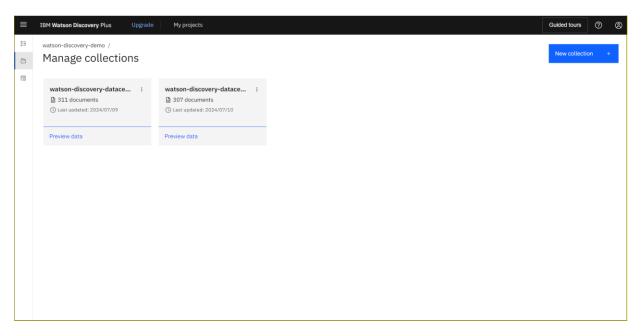
#### Watsonx.ai

• This is the Generative AI that was used to train the model: **granite-13b-chat-v2**, to restrict the model from hallucinating. This examle shows how the model was trained using the provided examples on the picture above.



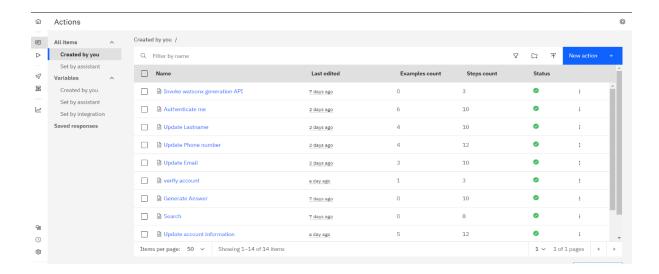
## **Watson Discovery**

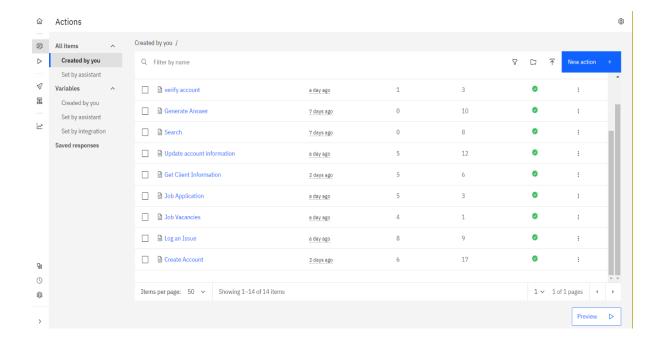
Watson Discovery is an Al-powered insight engine that was used on Trixie project to process
documents and identifies patterns, trends, and actionable insights within datacentrix
website. We used web crawl to retrieve relevant information about datacentrix.



#### **Watsonx Assistant**

• The Watsonx Assistant, a pivotal component of the Trixie project, represents the forefront of conversational AI technology. Designed to deliver an exceptional user experience, Watsonx Assistant harnesses the power of IBM's advanced AI capabilities to create a highly intuitive and interactive platform. By seamlessly integrating with other Watson services such as Watsonx.ai and Watson Discovery, the Watsonx Assistant elevates Trixie's ability to understand and respond to user queries with remarkable precision and relevance.





With 14 crafted actions, the Watsonx Assistant of Trixie is equipped to handle a wide range of user interactions, from simple inquiries to providing links to datacentrix web pages. Trixie's Watsonx Assistant is poised to redefine the standards of virtual assistance, setting a new benchmark for intelligent, responsive, and adaptive AI solutions.

• This first preview of datacentrix chatbot, shows how the bot will look like once it is deployed on the company website.



**Datacentrix Showcase 2024** 

The Datacentrix Showcase 2024 aims to encourage organisations to explore and leverage the advances in technology to best shape the future of their business



• If a user wants to find out more about datacentrix and its core services, they can simply write their query/question on the assistant's chat function. E.g "Get me information about datacentrix".



• And the user wants to find out about the mission of the company, they can simply put their query on the chat bot.



• The below example shows how the assistant will respond to questions about the core competencies of the company:



• The user now wants to know the CEO of the company:



• The user now wants to explore the job vacancies at datacentrix, Trixie provides the user with the link (Available vacancies) on which the user can use to access or see the available job openings at datacentrix.



• After the user explores the job vacancies available at datacentrix, the user now wants to apply for the position available. The user starts with: "How do I apply for a job?" or "I want to apply for a job".

On the below example, if the user states that they do not have an account (to track their job application process), the assistant will allow the user to create an account.



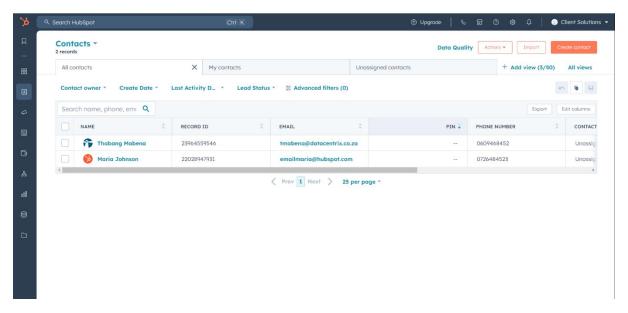
Once the user is done providing necessary information: First Name, Last Name, Email,
 Phone numbers, and four-digit PIN, the user must confirm the captured information before
 proceeding with the account. If the user made a mistake on the information, he/she can
 select "No" from the options (Yes/No) to start over. After successfully creating an account,
 the user is automatically authenticated.



• The information is being saved on **HubSpot CRM**, after successfully creating an account, then the API returns the **RECORD ID: 23964559546**. The assistant then provides the user with a link to the datacentrix **Human Capital Page** where they will fill in the information to complete the Job application process.



• The below example is the **HubSpot CRM dashboard.** The user information has indeed been successfully saved. The user's PIN has not been saved due to the OpenAPI specification.



• Now that the user has created an account and authenticated, the user can now update their phone number:



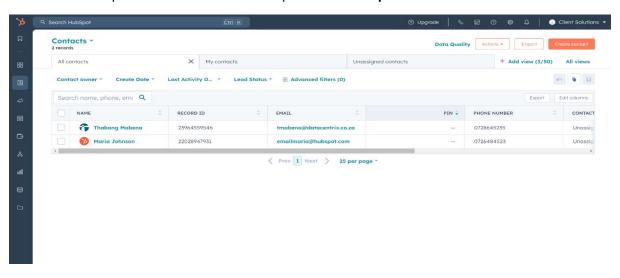
After entering their new phone numbers, the user must confirm the new number before
updating. If the user made a mistake, he/she can select "No" from the options (Yes/No) to
start over:



• The user's phone number has been updated successfully:



• The user phone numbers have been updated on **HubSpot CRM**.



• When the user has been successfully authenticated, they can now request the see their account information:



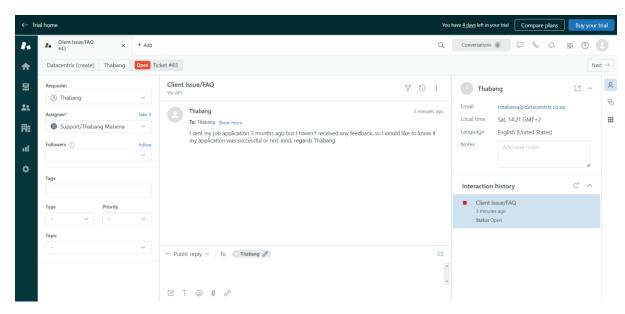
• If the user has an issue that the assistant can't solve, the matter is being escalated to the agent through **Zendesk**. The user must describe their problem in detail so that the support team can try to solve the matter.



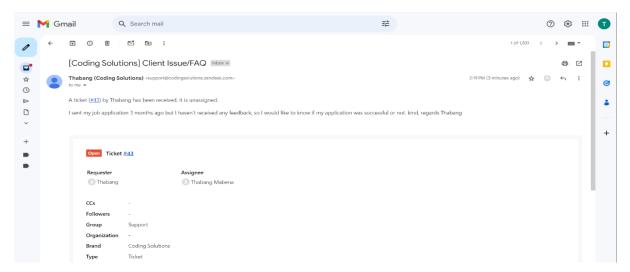
• Upon successful ticket creation, the Zendesk API returns the **ticket ID: 43** to the user.



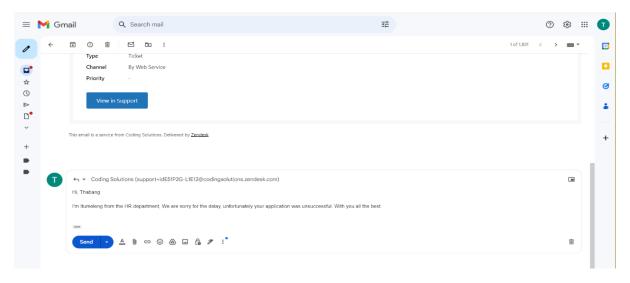
Below is a Zendesk ticket dashboard with the ticket that the user has created:



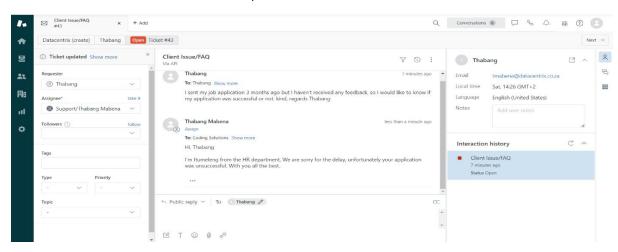
• The agent (HR team) is sent an email with the ticket information.



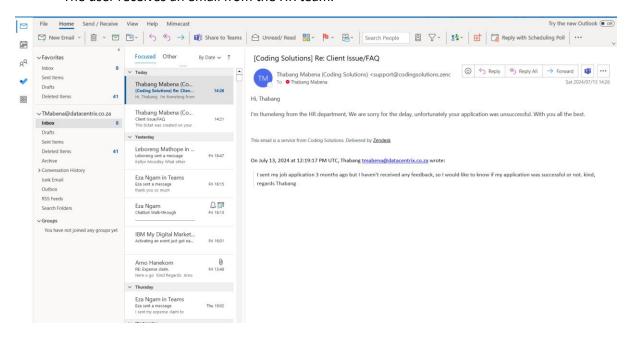
• The HR team replies to the user through an email.



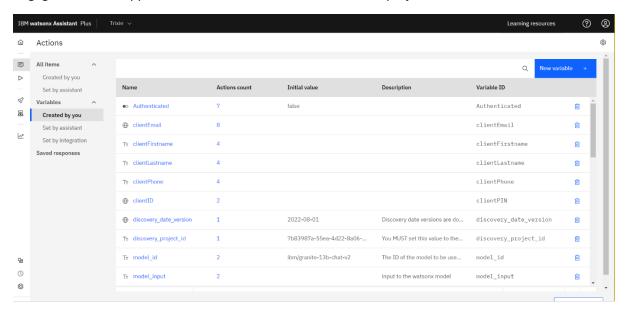
The email that the HR team sent, also reflects on the Zendesk.

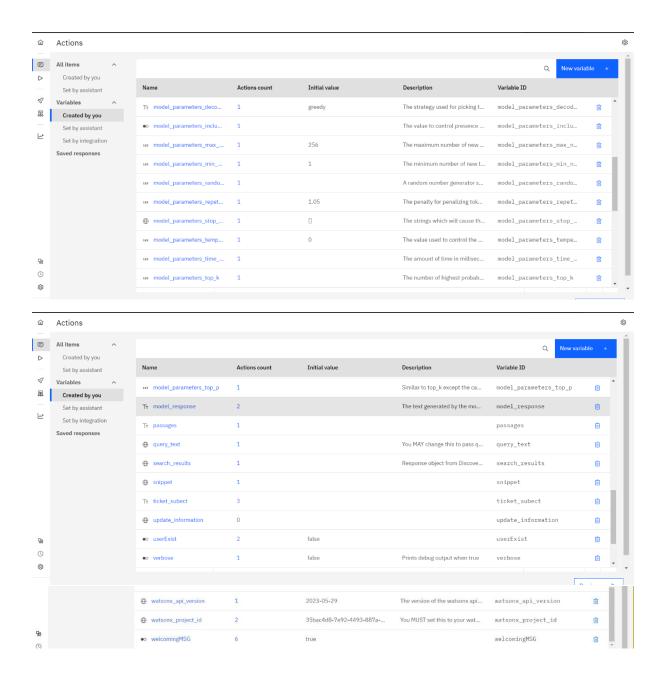


• The user receives an email from the HR team.



Trixie stands as a testament to the power of integrating advanced AI technologies to create intelligent systems that not only meet but exceed user expectations. Through continuous innovation and enhancement, Trixie aims to set new benchmarks in the realm of AI-driven customer engagement and support. Below are the variables used on the project:





The End!!!