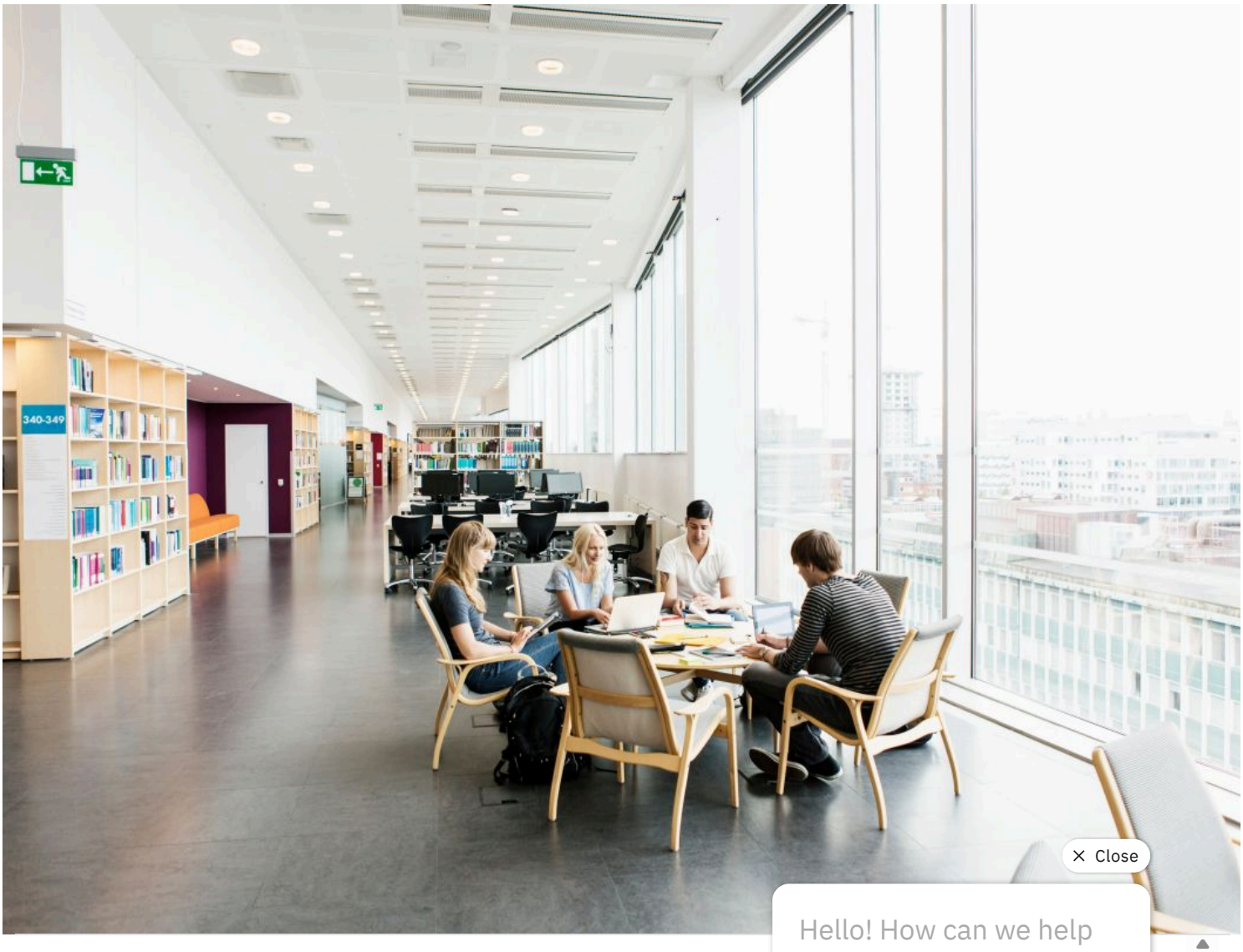
IBM's generative AI revolutionizes research operations

La Trobe University and IBM



Overcoming the limitations of current generative AI technologies in academia

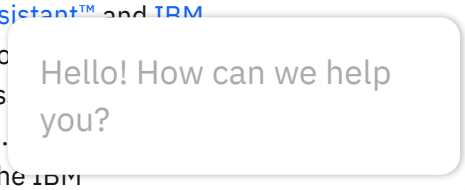
La Trobe University, a forward-thinking institution, sought to leverage generative AI (gen AI) to both enhance research operations and expedite go-to-market strategies. However, this can sometimes be challenging. Accessing and using university-approved knowledge for research can be time consuming, and the lack of development capabilities drastically slows down the ability to bring research findings to market efficiently. The university needed a solution that could streamline knowledge access and enable rapid application development for market entry.

8.7x

cost savings

Empowering researchers through customized knowledge access with AI solutions

Working closely with IBM, La Trobe University identified two key opportunities to leverage gen AI. First, researchers implemented a retrieval-augmented generation (RAG) architecture using IBM Watson® Discovery, IBM® watsonx Assistant™ and IBM watsonx.ai™ to streamline research operations. This system, a proc using over 100 papers on autism, allowed them to efficiently acces approved knowledge, saving valuable time in the research process. co-designed an application that leveraged existing expertise and the IBM watsonx™ portfolio of AI products to expedite go-to-market operations. This



application showcased how researchers could easily transform their data into market-ready solutions.

Streamlined development process yields cost savings and efficiency gains

Through its collaboration with IBM, La Trobe University achieved remarkable outcomes. The university reduced development time from months to weeks, with the AI component developed in less than a week. This outcome represented a 6-fold development time savings compared to traditional methods. Additionally, it achieved an 8.7-fold cost savings by developing the solution in-house using the IBM watsonx Assistant™, a product that helps build better virtual agents to drive enterprise productivity, as opposed to outsourcing. This decision not only saved costs but also empowered La Trobe to drive innovation in both academia and industry, positioning it as a leader in the market.

About La Trobe University

La Trobe University (link resides outside of ibm.com), a leading institution in Australia, is committed to delivering innovative research and education. With a focus on excellence

and community engagement, La Trobe offers a wide range of undergraduate, postgraduate and research programs.

Solution components

- IBM® watsonx.ai™ →
- IBM Watson® Discovery →
- IBM watsonx Assistant™ →

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