

## China Medical University Hospital in Taiwan upgrades smart healthcare with Gen AI

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### Establishing a comprehensive AI-assisted Physician using generative AI from Google Cloud, including MedLM

China Medical University Hospital (CMUH) in Taiwan announced its collaboration with Google Cloud in mid-December 2023. Using Google Cloud's generative AI technology, including MedLM, which is a large language model built on Med-PaLM 2, CMUH has developed a comprehensive artificial intelligence (AI)-assisted Physician system which aims to assist healthcare professionals in disease diagnosis, treatment planning, patient education, and medical research, etc.

The collaboration between CMUH and Google Cloud will introduce assistive tools designed to support medical professionals in precision cancer treatment. These tools, including 'Customised Cancer Treatment Guidelines' and 'Cancer Therapy Q&As', aim to reduce the time spent searching for information and enable the quick capture of accurate data. This can aid professionals in developing cancer treatment plans, offering personalised treatment-related information to patients, and providing responses to patient health education inquiries.

CMUH is one of the first university hospitals in Asia to test MedLM. Through its collaboration with Google Cloud, CMUH is dedicated to driving AI innovation in smart healthcare to shape the future of healthcare in Taiwan. MedLM will help facilitate CMUH in the timely access of accurate medical information to establish the best healthcare AI models for the Chinese-speaking market in Asia.

In addition, in terms of new drug development, CMUH is leveraging Google's unique AI accelerators, TPU (Tensor Processing Unit), to assist in calculations related to protein folding and the development of new drugs. Preliminary tests at CMUH have shown that utilising these resources can reduce the computation time for related programmes by over tenfold.