Future Achieves First in the World for Japanese-Chinese Translation and Second in the World for English-Japanese Translation in an International Machine Translation Competition

Future Corporation
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Future Corporation (Headquarters: Shinagawa-ku, Tokyo; Chairman and President, Group CEO: KANEMARU Yasufumi; hereinafter referred to as "Future") participated in an international competition held at WMT, an international conference specializing in machine translation, as a joint team with Tohoku University and Nara Institute of Science and Technology (hereafter referred to as "Team-J"). The team won first place in the translation quality in the Japanese-Chinese translation track by human judgement and second place in the translation quality in the English-Japanese translation track by human judgement.

WMT is an international conference on machine translation research, and this competition is known as the most prestigious international competition in the field of machine translation. To participate in this competition, Team-J made full use of data generation and developed a unique large language model (LLM) that is highly functional for Japanese-Chinese and English-Japanese translation in the development of a machine translation model. This unleashes LLM's strength to comprehend and generate long sentences, and enables a translation machine to generate document-level translations, which was difficult in the past.

NINTH CONFERENCE ON MACHINE TRANSLATION
(WMT24): https://www2.statmt.org/wmt24/program.html
Paper: https://www2.statmt.org/wmt24/pdf/2024.wmt-1.14.pdf

■ Team-J members
KUDO Keito（Tohoku University）
DEGUCHI Hiroyuki（NAIST）
MORISHITA Makoto（Future Corporation / Tohoku University）
FUJII Ryo（Future Corporation）
ITO Takumi（Tohoku University）
OZAKI Shintaro（NAIST）
NATSUMI Koki（NAIST）
SATO Kai（Tohoku University）
YANO Kazuki（Tohoku University）
TAKAHASHI Ryosuke（Tohoku University）
KIMURA Subaru（Tohoku University）
HARA Tomomasa（Tohoku University）
SAKAI Yusuke（NAIST）
SUZUKI Jun（Professor, Center for Language AI Research, Tohoku University）
(In order of the authors of the paper)

■ Future's Approach to LLM
In addition to research and development on machine translation-related LLM, Future is also developing its

own LLM that is highly functional in Japanese and software development in "GENIAC (Generative AI Accelerator Challenge)," a project promoted by the Ministry of Economy, Trade and Industry (METI) and the New Energy and Industrial Technology Development Organization (NEDO) to strengthen Japan's generative AI development capabilities.*1 We are also focusing on the research and development of specialized LLMs with a view to applying them to business operations in companies.

Future's approach to LLM is not limited to research and development. We also provide "LLM utilization consulting services"*2 to meet a wide range of clients' needs, including the introduction of AI chat services in companies, employee training, RAG utilization for company-specific data, and studies and introduction of LLM-first perspective in clients' business application.

*1. Future Selected for "GENIAC," a National Project to Strengthen Japan's Generative AI Development Capabilities
Building a large language model specializing in Japanese language and software development:
https://www.future.co.jp/en/topics/PDF/241010_Future.pdf
*2. Launch of Consulting Service Utilizing LLMs Supporting Digital Transformation promotion using large-scale language models：https://www.future.co.jp/en/topics/PDF/230821_FutureCorporation.pdf

About：Future Corporation
Future Group is a company that conducts "IT Consulting & Service Business" and "Innovation Business" through the use of latest technology. Since the founding in 1989, we have designed and improved the business of our clients through developing systems that integrates business management with IT. Our clients are from various industries including Finance, Manufacturing, Distribution and Logistics. We have also created our own new services based on the know-how we have accumulated in this process. We are contributing to the society by promoting innovation and creating new values for clients that is based on the strengths of "connoisseurship" and "implementation ability" of latest technologies such as AI and robotics.

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