

## Public release of GENIAC's "Large Language Model specializing in Japanese Language and Software Development"

### Future's unique large-scale language model achieves high generation capacities

Future Corporation  
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Future Corporation (Headquarters: Shinagawa-ku, Tokyo; Chairman and President, Group CEO: KANEMARU Yasufumi; hereinafter, "Future") has been researching and developing a "large language model specializing in Japanese language and software development" since October 2024 with the support of "GENIAC (Generative AI Accelerator Challenge)"\*1, a project for strengthening domestic capability to develop generative AI, conducted by the Ministry of Economy, Trade and Industry (METI) and the New Energy and Industrial Technology Development Organization (NEDO). The development period of this model has now come to a close, and the resulting foundation model has been released to the public. In the future, Future will contribute to the advancement of software development in Japan by making our evaluation data sets widely available.

Public URL: <https://huggingface.co/future-architect/Llama-3.1-Future-Code-Ja-8B>

The "large language model specializing in Japanese language and software development" developed through this project has achieved high generation capabilities compared to base models in various programming languages that were used for comparison. In particular, we were able to confirm that the ability to complete source code with Japanese instructions was excellent. Furthermore, this foundation model natively supports Fill-In-the-Middle (FIM)\*2, which is unprecedented for Japanese.

Future has already begun working on verifying the "large language model specializing in Japanese language and software development" for business applications. In addition to completing source code, we are conducting verification to achieve high generation capabilities in a wide range of areas related to software development, including generation of automatic reviews of source code and automatic generation of source code from specifications.

As a social design company based on technology with more than 20 group companies, Future strongly promotes cutting-edge AI academic research and R&D. In addition, together with Future Architect (Headquarters: Shinagawa-ku, Tokyo; President: TANIGUCHI Tomohiko), a main operating company, we provide AI consulting services offering comprehensive support from concept to implementation. We will continue to contribute to practical solutions to social issues by leveraging our strengths in advancing cutting-edge AI research and implementing AI technology in society.

\*1. GENIAC: [https://www.meti.go.jp/policy/mono\\_info\\_service/geniac/index.html](https://www.meti.go.jp/policy/mono_info_service/geniac/index.html)

NEDO Project: [https://www.nedo.go.jp/koubo/IT2\\_100331.html](https://www.nedo.go.jp/koubo/IT2_100331.html)

\*2. A method for text generation tasks wherein a system is trained to complete the middle of a text, enabling code generation that takes into account the surrounding context.

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.

Source : Future Corporation

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