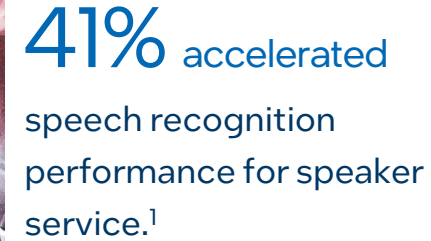


kakao



41% accelerated
speech recognition
performance for speaker
service.¹

Improved AI Performance for Speech Recognition Workloads Through Optimization

Kakao Corp is a global mobile lifestyle platform, creating a more comfortable and exciting world by innovating the way we connect. Kakao hosts more than tens of thousands of physical servers, virtual machines, and containers for various workloads such as communication, portal, content, commerce, games and many more. Kakao was most interested in finding a way to improve speech recognition inference performance and velocity for the company's artificial intelligence (AI) speaker service running on Intel® Xeon® processors. Kakao's proof of concept system with 2nd Gen Intel® Xeon® Scalable processors, delivered up to 41 percent performance improvement with a combination of Intel® Advanced Vector Extensions 512, Intel® Deep Learning Boost, and Intel® Math Kernel Library.¹

“Using Intel solutions helps Kakao improve performance, simplify maintenance and save time while providing a better quality of AI service.”

**Biho Kim, Manager of
Voice Processing Part,
Kakao**

Products and Solutions

[2nd Gen Intel® Xeon® Scalable processors](#)

[Intel® Deep Learning Boost](#)

[Intel® Advanced Vector Extensions 512](#)

Industry

Information and
Communication
Technology

Organization Size

1,001–5,000

Country

Korea

¹ The results were provided by Kakao and were based on its internal tests. For more complete information about performance and benchmark results, please contact Kakao.