

intel

5.3X acceleration

for AbbVie Search with OpenVINO toolkit over unoptimized TensorFlow.²

Accelerating Natural Language Processing for Biopharmaceuticals Research

Products and Solutions

2nd Gen Intel® Xeon® Scalable processors
Intel® Distribution of OpenVINO™ toolkit
Intel® oneAPI Deep Neural Network Library (oneDNN)

AbbVie partnered with Intel to optimize processes for its more than 47,000 employees. Abbelfish Machine Translation, AbbVie's language translation service based on the Transformer NLP model, uses 2nd Gen Intel® Xeon® Scalable processors, the Intel® Optimization for TensorFlow* and the Intel® oneAPI Deep Neural Network Library (oneDNN). AbbVie Search, which is a BERT-based NLP mode, scans research documents based on scientific questions and returns relevant results that enable the discovery of new treatments for patients pharmaceuticals and manufacturing methods. AbbVie's NLP AI deployments demonstrate how CPUs can be highly effective for edge AI inference in a large organization without the need for additional hardware acceleration.

Industry
Pharmaceuticals

Organization Size 10.001+

Country
United States

Learn more
News Byte
White Paper

"We built Abbelfish Machine Translation and AbbVie Search to accelerate and scale the work of our researchers, reducing the time it takes to discover and deliver transformative medicines and therapies for patients. We're looking to leverage Intel technology in a new way to deploy these capabilities at scale across the enterprise."

Brian Martin, Head of Al in R&D Information Research, AbbVie