

4X faster training performance for the data analytics pipeline compared to the existing GPU architecture.¹

6X faster inference performance for the data analytics pipeline compared to the existing GPU architecture.²

SK Telecom, Intel Build AI Pipeline to Improve Network Quality

SK Telecom (SKT) is Korea's leading ICT company. To effectively analyze the massive amount of data their network generates, SKT and Intel engineers built an end-to-end network AI pipeline for network quality prediction. The entire pipeline runs on a unified Intel® Xeon® Scalable processor-based server cluster with Intel® Advanced Vector Extensions 512 and Intel® Deep Learning Boost. Analytics Zoo software handles the in-memory data pipelines and distributed model training and inferencing. The AI pipeline outperforms SKT's legacy GPU based implementation by up to four times and six times for deep learning training and inference respectively, which enables SKT to more quickly forecast and detect degradation and abnormal changes in network quality so that SKT can take proactive action to deliver their 5G service quality.³

Products and Solutions

[2nd Generation Intel® Xeon® Scalable processors](#)
[Intel® Advanced Vector Extensions 512](#)
[Intel® Deep Learning Boost](#)
[Analytics Zoo](#)

Industry

Telecommunications

Organization Size

1,001-5,000

Country

South Korea

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[White Paper](#)