SAMSUNG MEDISON

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Intel® Geti™ Platform Accelerates AI Model Training for Nerve Detection in Samsung Ultrasound

The Samsung Medison NerveTrack model is an AI-enabled inference model of human nerve structures that can serve as a reference for doctors who use Samsung Medison ultrasound devices to guide needle placement for local anesthesia and other treatments. Training of NerveTrack's deep learning inference models requires thousands of annotated ultrasound reference images. Image annotation is best performed by doctors with years of medical training and experience; however, it can be difficult and time-consuming for those doctors, partly because annotation tools and methods are typically designed for computer engineers and data scientists. To improve the annotation and modeling workflow and collaboration between the teams, Samsung Medison worked with the Intel® Geti™ platform; the computer vision AI platform's intuitive user interface enabled a small group of doctors to annotate tens of thousands of images in just a few weeks before handing them off to the AI engineer team for model training.

Products and Solutions
Intel® Core™ Processors
Intel® Geti™ Platform
Intel® Distribution of OpenVINO™ Toolkit

Industry
Medical Equipment Manufacturing

Organization Size
1,001–5,000

Country
South Korea

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Case Study