



“ Intel® tools and technologies helped us offer customers reliable, outstanding performance on cost-efficient edge hardware. The optimization we achieved ensures that WorkSafe can rapidly identify hazards and help keep our customers' workforces safe.”

Kamal Mannar, PhD  
Head of Applied Intelligence, Vulcan AI



# WorkSafe solution identifies workplace hazards

Vulcan AI is an AI service provider that helps enterprise organizations solve problems and unlock value from AI on a commercial scale. The company developed a solution called WorkSafe to protect against workplace hazards and the spread of infectious diseases by extending inference and deep learning capabilities at the edge. WorkSafe identifies safety issues in the workplace and monitors social distancing and mask wearing. Managers can assess potential hazards through daily risk assessment reports.

Vulcan AI leveraged the Intel® Distribution of OpenVINO™ toolkit to optimize models for the edge on a single device, then deploy the models across other devices. Using the toolkit, they were able to increase throughput by 3–5x.<sup>1</sup> Vulcan AI used Intel® DevCloud for the Edge to ensure optimal performance of cameras in customer facilities in order to understand the appropriate hardware configuration needed for the solution. Ultimately, they determined that the optimal configuration was a cost-effective approach using Intel® Core™ i5 processors alongside Intel® Movidius™ Myriad™ X VPUs for inference.

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1. Source: Internal Vulcan AI performance data. Intel does not control or audit third-party data. Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy.

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