Avitas Systems, a GE Venture, uses NVIDIA Deep Learning for Industrial Inspection

From AI supercomputer to robots, Avitas Systems uses NVIDIA DGX® Systems™ to revolutionize the inspection of industrial assets. It is AI-infusing its service to increase human safety, protect the environment, and yield cost savings for businesses.

Deep Learning Data Center

Avitas Systems is delivering infrastructure inspection services using autonomous and semi-autonomous robots. These robots deploy deep neural networks developed on NVIDIA DGX-1™ in the data center, and easily extended to NVIDIA DGX Station™ in the field.

AI-Enabled Robots

5G is the future of industrial connectivity, but Avitas Systems’ AI-enabled robots have the edge. These robots, equipped with NVIDIA DGX Station™, can run inferencing on data collected from robots.

On Location AI Supercomputer

Industrial sites are sometimes thousands of miles from data center infrastructure. So when high-speed connectivity is out of reach, Avitas Systems brings AI to the location, using NVIDIA DGX Station™—the deep learning supercomputer, right on location, to run inferencing on data collected from robots.

Machines that Learn

The Avitas Systems team continually re-tunes and refines its AI, making its services smarter with every second of captured data. NVIDIA DGX Systems use this flow of information to re-train Avitas Systems models and continually improve inspection results efficiency and accuracy.

BY THE NUMBERS

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<thead>
<tr>
<th>HOW IT’S DONE</th>
<th>UP TO</th>
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<tbody>
<tr>
<td>Decrease in Annual Inspection Cost</td>
<td>25%</td>
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<td>Reduction in Maintenance Downtime</td>
<td>15%</td>
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<td>Faster Turnaround on Inspections</td>
<td>25%</td>
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*Numbers Projected Based on Avitas Systems

Using our latest NVIDIA DGX Systems to help train robots and better predict industrial defects, Avitas Systems has a profound impact on inspection by increasing worker safety, preserving the environment, and leading to incredible cost savings for companies.

Jim McHugh. Vice President and General Manager at NVIDIA