

TORONTO INNOVATION LAB



1. Set Up Your System and Start Collecting Data

The first step toward intelligent automation begins with data. By setting up a simple video recording system in your factory or on-site environment, you enable your business to capture real, day-to-day operations. These recordings provide invaluable insights into how tasks are performed, where inefficiencies arise, and how processes can be improved.

Our process doesn't require complex setups — it works with the infrastructure you already have. Whether it's cameras mounted in work areas or mobile devices capturing footage, your business gains the power to observe and understand every step of your workflow. This raw visual data becomes the foundation for building smarter systems that learn directly from real-world operations.

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2. Identify Mistakes and Document Corrective Actions

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3. Expert Labeling and Data Annotation

Once your data is collected, our team of experts takes over. We carefully review each video, labeling the precise frames where mistakes occur and identifying the visual cues that signal them – whether it's a hand motion, a misplaced tool, or a timing issue.

Beyond errors, we also label standard operational sequences to give the AI context about your workflow. This dual labeling approach ensures the system doesn't just react to problems, but also understands the normal rhythm of your operations. The result is a highly structured dataset ready to train intelligent models capable of recognizing the nuances of your specific processes.

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4. Building a Complete Understanding of Your Operations

Our goal goes beyond identifying mistakes – we help your AI understand your business. Through detailed labeling of both general and error-specific operations, we create a visual language that mirrors your company's workflow.

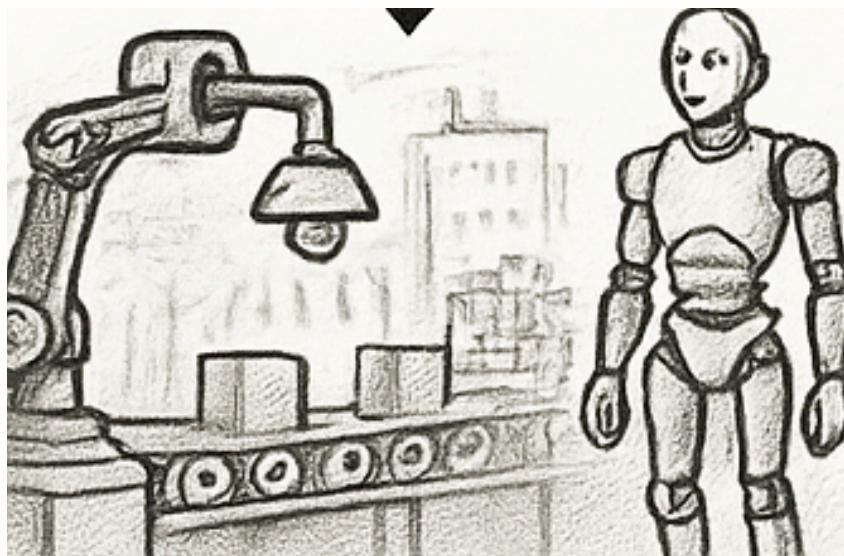
This enables your AI models to differentiate between acceptable variations in performance and true deviations that indicate a problem. Over time, this knowledge becomes a digital reflection of your operations – a data-driven representation that helps improve training, consistency, and overall quality across teams and locations.



5. Deploying and Hosting Your Custom AI Models

Once your data is ready, we take care of the rest. We host and deploy your custom AI models on secure, scalable systems that can integrate seamlessly into your existing environment. These models can be run on passive devices such as cameras or audio sensors, continuously monitoring your operations in real time.

The system detects and recognizes mistakes as they happen, instantly sending live notifications to employees or supervisors. This immediate feedback helps prevent errors before they escalate and ensures higher consistency and safety across your operations. Our deployment infrastructure ensures reliable performance, effortless scalability, and continuous improvement as new data is added.



6. Future-Proof Your Operations

Technology evolves – and your systems should evolve with it. Our AI solutions are designed to adapt to future innovations, from humanoid robots to specialized automation systems. As new hardware becomes available, your custom models can be seamlessly deployed and trained to operate on these advanced platforms.

This future readiness ensures that your company remains strong, agile, and ahead of technological shifts. By investing in adaptable AI today, you're not just improving current performance – you're building the foundation for a smarter, more resilient future where machines understand, assist, and perfect the way work gets done.