Accelerate Innovation
in Production

Landing AI has a mission to enable companies to accelerate innovation by embracing AI quickly and successfully. With our many customer engagements, from the most traditional companies to fast-changing high-tech companies, we can source initial projects, identify concrete strategies and solutions, and alleviate real organizational pain. With our collection of cutting-edge tools, access to the latest research, and our active AI community, we are driving successful AI adoption for customers around the globe.

Today, Landing AI specializes in visual inspection AI solutions across automotive, electronics, food & packaging, and pharmaceutical and biotech. With a data-centric AI approach and our LandingLens MLOps platform, we help manufacturers solve visual inspection problems, find product defects more reliably, and improve efficiency of quality inspection.

LANDING AI™

Landing AI's **Data-Centric Approach** to Address Challenges with AI Adoption

We see the next era of AI as one in which all companies access the benefits of AI — not just consumer internet companies but the legacy industries too — such as manufacturing. However, **AI built for 50 million data points doesn't work when you only have 50 data points**. For these legacy industries with limited datasets, a data-centric approach is key to building AI that ensures the data conveys what you need the AI to learn.

Landing AI's data-centric approach addresses the classic challenges of limited data sets, inconsistent data, and human expert disagreements on ambiguous defects. Here's how:

1 When the **focus is on the quality of the data and not the quantity**, teams remove unnecessary trial-and-error time spent on improving the model when the issue is bad data.

2 **Clearly labeling defective image data early in the process** helps the AI learn what you want it to learn faster and easier.

3 **Including quality managers and subject matter experts** in data collection and labels yields high data consensus, improving the strength of your model.

With your team's focus on the data quality, data labeling, and reaching a consensus on the data, models can deliver the performance metrics you are looking for.

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PROGRESS 68%

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Companies from diverse industries such as automotive, electronics, and medical device production have seen improvements from adoption of a data-centric approach.

These benefits include:

Faster model building
10X

Reduced time to deploy
65%

Improved yield and accuracy
40%

LandingLens, Industry Leading
Data-Centric MLOps Platform

The data-centric approach is also key to making LandingLens fast and easy-to-use. The focus on data, instead of the AI software or code, gives an efficient way for manufacturers to teach an AI model what to do. Domain experts, not just AI experts, can now build an AI system, and take it to production. For example, rather than needing to write pages of code to train a neural network, a domain expert can do it with a few mouse clicks. This no code/low code data-centric platform enables new users to build advanced AI models in less than a day.

With LandingLens, our customers are finding manufacturing defects faster and more reliably.

# Key Advantages of LandingLens

There is no setup required with our cloud-based solution. A new user can be building cutting-edge AI models in less than a day.

Building AI for defect detection is challenging it itself because you generally don't have too many examples of defects to label and train your models on. Therefore, it is critical your team makes the best use of your limited image collection.

Data Management includes a variety of tools and features that help your team align on what qualifies as a defect and what does not, as well as a way for you to test how well their labels align. Here, your team will work iteratively to build a "Defect book" that will help future labelers consistently identify defects.

Model Iteration is all about giving you the flexibility of a professional ML team while removing all the complexity of training models with open-source code and custom environment. Features in this module include our codeless model training, auto model tuning, and live training progress. LandingLens also offers in depth performance metrics to help you understand where your model is strong and where it needs work.

Deployment enables you to quickly deploy models in your production environment. With device fleet management, environmental checking and change detection, monitoring dashboards and a data flow that integrates with the rest of the platform, you can retrain models on newly captured data. Regardless of the hardware you use, our platform integrates seamlessly with devices, PLCs and cloud environments. These tools combined enable your team to deploy and manage an infinite number of AI edge devices.
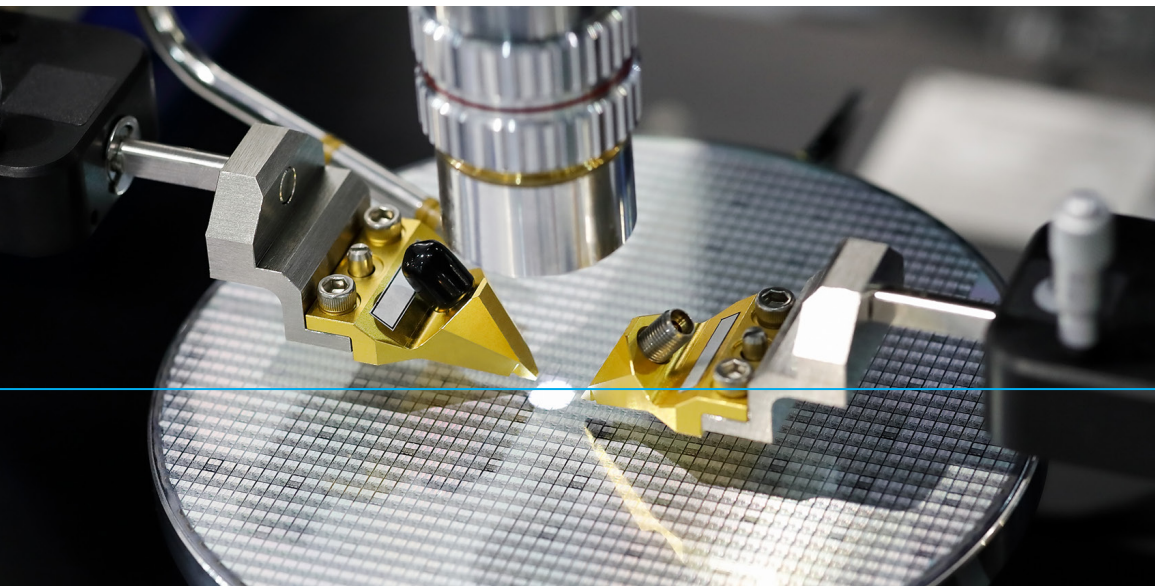
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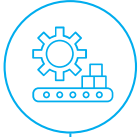
Manufacturing: Every scratch, chip, or defective part matter to the bottom line. Identifying defects correctly and consistently is critical to production success. Inspectors are constantly challenged with defining defects randomly. Landing AI provides an integrated, end-to-end visual inspection platform that effectively manages your data and builds solutions you can rely on.

Automotive: Automobile parts of all types benefit from visual inspection and machine vision technologies — from a printed circuit board up to the vehicle's door. LandingLens supports electrical vehicle battery inspection, spot welding inspection, radiator inspection, part assembly inspection, leak detection, seat thread inspection, surface defects and much more.

Electronics: Defective parts can cause malfunctioning, shorter product life spans, and safety issues. Identifying defective parts early in the assembly process can reduce future costs significantly. LandingLens supports wafer defect inspection, integrated circuit inspection, welding/solder inspection, display inspection, surface inspection, battery inspection, and solar panel inspection.

Food & Packaging: One of the biggest challenges is how to increase quality and speed of inspections while reducing cost in an industry with goods and products that come in every size, shape, and color. LandingLens can help with glass jar inspection, product orientation inspection, safety seal inspection, label quality inspection, and barcode quality inspection.

Medical Devices & Pharmaceutical: Machine vision systems help medical and pharmaceutical manufacturers with quality control via automated inspection. LandingLens supports pill inspection, vial counting and contamination inspection, medical device pcb inspection, and many other biomedical applications.

LANDING AI

LandingLens is an industry-first data-centric artificial intelligence (AI) visual inspection platform. It helps improve inspection accuracy and reduce false positives. The end-to-end platform standardizes deep learning solutions that reduce development time and scale projects easily to multiple facilities across the globe. Our focus remains on our customers and continual product innovation to solve the real-world problems of the manufacturing audience. To learn more, visit: www.landing.ai and follow Landing AI on Twitter and LinkedIn.

LandingLens was built to successfully enable faster AI adoption for manufacturing companies.

About Landing AI

Landing AI™ is pioneering the next era of AI in which companies with even limited data sets can realize the business and operational value of AI and move AI projects from proof-of-concept to full scale production. Guided by a data-centric AI approach, Landing AI's flagship product is LandingLens™, an enterprise MLOps platform that offers to build, iterate, and operationalize AI powered visual inspection solutions for manufacturers. With data quality being key to the success of production AI systems, LandingLens™ enables users to achieve optimal data accuracy and consistency. Founded by Dr. Andrew Ng, co-founder of Coursera, former chief scientist of Baidu, and founding lead of Google Brain, Landing AI is uniquely positioned to lead the development of AI from a technology that benefits a few to a technology that benefits all.

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