

Brochure

Vision NXT

Transforming Pixels into Insights





Vision NXT Overview

Vision NXT platform leverages AI-powered vision and deep learning models to identify and extract features from images and solve challenging business use cases. The platform enables systems to interpret, comprehend, and deliver insights based on visual data comprising images and video streams.

The possibilities are limitless across industries such as manufacturing, automobile, healthcare & life sciences, RCPG, and more. The platform provides an end-to-end holistic view of the processes to enable deep insights for improved decision-making by the business.

These insights enable businesses to make improved and better decisions, leading to higher ROI. Vision NXT is a no-code/low-code platform that is completely flexible and configurable in terms of its architecture build.

Applications/use cases of Vision NXT across industries



Manufacturing

- Quality inspection
- Non-Destructive Testing (NDT)
- Safety monitoring and compliance
- Robotic guidance and control



Construction

- Worker safety
- Material monitoring and compliance
- Equipment tracking and monitoring
- Quality assurance inspection



Food and Beverage

- Process quality monitoring (e.g., food grade analysis)
- Counterfeit detection
- Packaging inspection and monitoring
- Inventory planning and management



Retail and Consumer Packaged Goods

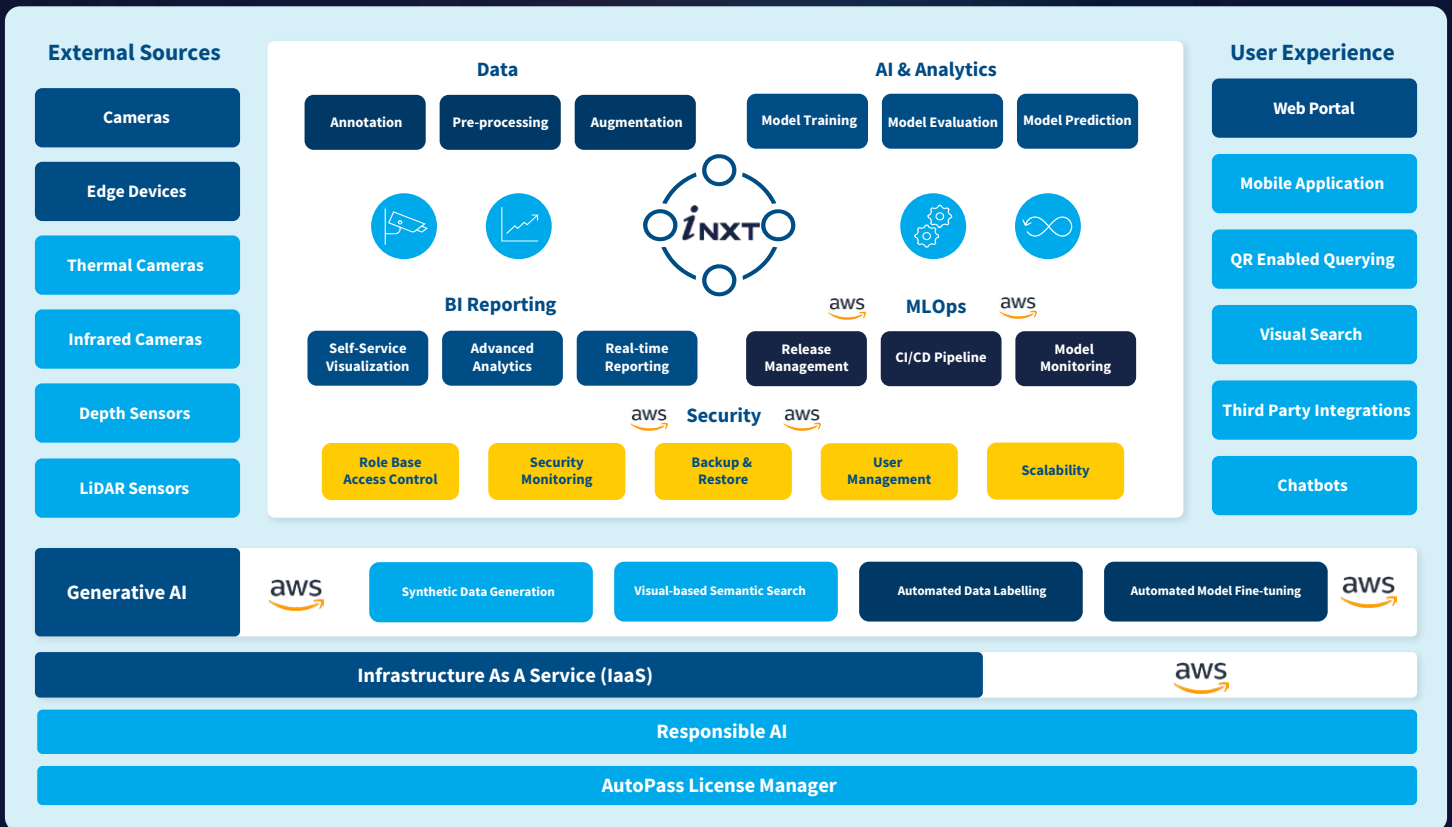
- Shelf on shelf
- Label quality inspections
- Product taxonomy & reverse taxonomy
- Image and video tagging for visual search
- Inventory optimization



Automotive

- Automated vehicle inspection system (external + internal)
- Parts inspection
- Automated number plate recognition
- Vehicle safety monitoring
- Vision NXT for service centers

Reference architecture on AWS



Technical benefits of Vision NXT

- Support for Edge Analytics and Tiny Models
- Ability to choose from more than 15+ algorithms
- Multiple data source connectors and integration support
- No-code/low-code layer empowering business users to build, train, and deploy vision models

Business benefits



25+ pre-trained models with accuracy above 70%



Modular and reusable architecture leading to a 1/5th reduction in time and 1/3rd reduction in resource cost to build a use case



Enabling improved and efficient decision-making for businesses with analytical dashboards



Self-service interface leading to higher flexibility and adaptability in terms of any change in processes or business requirements

Key features





LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 81,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit <https://www.ltimindtree.com/>.