Computer Vision AI Tools and Technologies

AN IDC CONTINUOUS INTELLIGENCE SERVICE

IDC's *Computer Vision AI Tools and Technologies* program tracks the software tools, technologies, and ecosystem trends that are impacting the growth of computer vision (CV) solutions. IDC's analysis includes understanding all aspects of the CV software life cycle, including identifying how, where, and why technology buyers plan to utilize CV to derive actionable intelligence from images, videos, and geospatial and sensor data sources. The *Computer Vision AI Tools and Technologies* program also encompasses IDC's AI and Automation team's perspective and research for the continued evolution and advancement of document understanding AI and intelligent document processing (IDP)

IDC's primary research has shown that technology buyers have strong desires to invest and scale CV and AI across all aspects of their businesses. Although CV remains a fragmented, emerging technology growth area, its potential material impact on technology buyer and supplier businesses has accelerated its development and maturation timeline.

Markets and Subjects Analyzed

- CV artificial intelligence (AI) software and platform solutions
- Advanced deep learning methods for computer vision
- Image modeling, including image formation, feature extraction, multiview geometry, and generative AI (GenAI)
- Low-level image processing methods such as filtering and edge detection
- Object detection, photogrammetry, 3D pose estimation, 3D rendering, and scene creation and understanding techniques
- CV AI software integration for robotics
- Synthetic data capability applications
- Document understanding AI and intelligent document processing
- End-user requirements and challenges, governance, and deployment best practices
- Vertical-specific CV use cases and applications
- Ecosystem evolution to support CV growth and advancement

Core Research

- Worldwide Computer Vision AI Software Tools and Technologies Market Shares, 2022
- Worldwide Computer Vision AI Software Tools and Technologies Forecast, 2023-2027
- Worldwide Intelligent Document Processing Software Tools and Technologies Market Shares, 2022
- Worldwide Intelligent Document Processing Software Tools and Technologies Forecast, 2023-2027
- Market Analysis Perspective: Computer Vision AI Software Tools and Technologies, 2023
- Market Analysis Perspective: Intelligent Document Processing Software Tools and Technologies, 2023
- IDC FutureScape: Worldwide Artificial Intelligence and Automation 2024 Predictions
- IDC MarketScape: 2023 Worldwide Intelligent Document Processing Software Vendor Assessment

In addition to the insight provided in this service, IDC may conduct research on specific topics or emerging market segments via research offerings that require additional IDC funding and client investment. To learn more about the analysts and published research, please visit: Computer Vision AI Tools and Technologies.

Key Questions Answered

1. What are the trends, opportunities, and market size for CV AI software services?
2. How will CV AI change the business process optimization landscape?
3. How will CV augment and enrich knowledge and creative processes and outputs?
4. How are vendor offerings in the CV AI market differentiated?
5. What challenges do businesses face in adopting CV AI solutions?
6. How does the expansion of edge and cloud infrastructure impact CV AI deployment footprints?
7. How are vendors implementing document AI to drive the future growth of intelligent document processing?

Companies Analyzed

This service reviews the strategies, market positioning, and future direction of several providers in the *Computer Vision AI Tools and Technologies* market, including:

ABBYY, Adobe, Alibaba Cloud, Algolux, AlwaysAI, AMD, Antworks, Anyclip, Anyvision, Appian, Automation Anywhere, AWS, Baidu, Briefcam, C3.AI, Celaton Limited, Chooch.AI, Clarifai, CloudSight, CloudWalk, Cogniac, Conviva, Cortica, DataGen Deep Vision AI, Deepomatic, Drishti, EdgeVerve Systems, Fractal.AI, Google, H20.ai, Hitachi Vantara, Hive, Hyperscience, IBM, InData Labs, Intel, IronYun Inc, Kasco, Kofax, Marlabs, Mathworks, Matroid, Megvii, Meta, Microsoft, Mobius Labs, Neurala, NVIDIA, OpenAI, OpenText, Oracle, Orbital Insights, Parascript, Plainsight, Qualcomm, SAP, SAS, Scandit, SenseTime, Sighthound, Syte, Tencent, UiPath, Umbo CV, Uniphore, Unity, Unreal, ViSenze, and Zesty.AI