+44 20 8123 2220
info@marketpublishers.com

# Global Automotive Artificial Intelligence Market Size Study, by Offering, by Technology (Deep Learning, Machine Learning, Computer Vision, Context-aware Computing, and Natural Language Processing), by Process, by Application, and Regional Forecasts 2022-2032

https://marketpublishers.com/r/GFC557E84CBDEN.html
Date: February 2025
Pages: 285
Price: US$ 4,950.00 (Single User License)
ID: GFC557E84CBDEN

## Abstracts

The Global Automotive Artificial Intelligence Market is valued at approximately USD 2.85 billion in 2023 and is projected to grow at an impressive CAGR of 24.1% over the forecast period from 2024 to 2032. The automotive industry is undergoing a paradigm shift, with artificial intelligence (AI) taking center stage in the transformation of vehicles and transportation systems. AI's potential to enhance vehicle safety, enable autonomous driving, and optimize manufacturing processes is reshaping how automotive systems are developed, deployed, and experienced by end-users.

AI technologies such as deep learning, natural language processing, and computer vision are pivotal in enabling intelligent features like real-time decision-making and predictive maintenance. With increasing adoption of advanced driver-assistance systems (ADAS) and autonomous vehicles, the market for automotive AI is poised for significant expansion. Furthermore, the advent of connected cars, integration of IoT, and smart traffic management systems are accelerating demand for AI applications across the automotive ecosystem.

Global market growth is largely driven by the growing need for safety enhancements, the push towards autonomous vehicles, and government initiatives supporting AI in transportation. For instance, countries worldwide are investing heavily in AI research to integrate smart mobility solutions and improve road safety. The market's expansion is

+44 20 8123 2220
info@marketpublishers.com

further supported by collaborations between automotive OEMs and tech companies to develop sophisticated AI-powered platforms. However, challenges such as data privacy concerns, high implementation costs, and regulatory complexities may hinder market growth.

Regional analysis reveals that North America dominated the automotive AI market in 2023, attributed to the presence of leading technology providers, supportive regulatory frameworks, and advanced infrastructure for autonomous vehicle testing. Europe follows closely, benefiting from stringent vehicle safety regulations and robust R&D activities. Meanwhile, the Asia-Pacific region is projected to grow at the fastest rate during the forecast period due to rapid urbanization, increasing vehicle demand, and proactive government investments in smart mobility initiatives.

Major market players included in this report are:

NVIDIA Corporation

Alphabet Inc. (Waymo)

Intel Corporation

Tesla, Inc.

BMW AG

General Motors Company

Ford Motor Company

Uber Technologies, Inc.

Toyota Motor Corporation

Baidu, Inc.

Volvo Car Corporation

Aptiv PLC

+44 20 8123 2220
info@marketpublishers.com

Continental AG

Honda Motor Co., Ltd.

Daimler AG

The detailed segments and sub-segments of the market are explained below:

By Offering:

Hardware

Software

Services

By Technology:

Deep Learning

Machine Learning

Computer Vision

Context-aware Computing

Natural Language Processing

By Process:

Data Processing

Signal Recognition

Image Recognition

+44 20 8123 2220
info@marketpublishers.com

By Application:

- Autonomous Driving
- Driver Assistance Systems
- Human-Machine Interface
- Fleet and Traffic Management
- Predictive Maintenance

By Region:

- North America
- U.S.
- Canada
- Europe
- UK
- Germany
- France
- Italy
- ROE
- Asia-Pacific
- China
- India

+44 20 8123 2220
info@marketpublishers.com

Japan

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

South Africa

RoMEA

Years considered for the study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market estimates and forecasts for ten years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Country-level analysis for major regions.

Comprehensive competitive landscape with details on major players in the

+44 20 8123 2220
info@marketpublishers.com

market.

Strategic recommendations and future market approach insights.

Detailed analysis of demand-side and supply-side trends.

+44 20 8123 2220
info@marketpublishers.com

# Contents

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com



## CHAPTER 9. COMPETITIVE INTELLIGENCE



## CHAPTER 10. RESEARCH PROCESS

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

# List Of Tables

## LIST OF TABLES


(This list is not complete; the final report contains more than 100 tables. The list may be updated in the final deliverable.)

+44 20 8123 2220
info@marketpublishers.com

# List Of Figures

## LIST OF FIGURES


(This list is not complete; the final report contains more than 50 figures. The list may be updated in the final deliverable.)

+44 20 8123 2220
info@marketpublishers.com

## I would like to order

Product name: Global Automotive Artificial Intelligence Market Size Study, by Offering, by Technology (Deep Learning, Machine Learning, Computer Vision, Context-aware Computing, and Natural Language Processing), by Process, by Application, and Regional Forecasts 2022-2032

Product link: https://marketpublishers.com/r/GFC557E84CBDEN.html

Price: US$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GFC557E84CBDEN.html