

Automotive Artificial Intelligence Market By
Component (Hardware, Software, Services), By
Technology (Machine Learning and Deep Learning,
Computer Vision, Natural Language Processing,
Others), By Application (Semi-Autonomous,
Autonomous): Global Opportunity Analysis and
Industry Forecast, 2023-2032

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Abstracts

The global automotive artificial intelligence market size was valued at \$13.8 billion in 2022, and is projected t%li%reach \$405.3 billion by 2032, growing at a CAGR of 40.7% from 2023 t%li%2032.

Automotive artificial intelligence refers t%li%the use of AI technology in automobiles t%li%increase various aspects of the automobile system, including efficiency, safety, convenience, and t%li%improve the overall driving experience. The automotive industry has witnessed the advent of artificial intelligence and is among the major industries that uses AI t%li%augment and mimic the action of humans. Furthermore, emergence of modern automobile functions such as advanced driver assistance system (ADAS), adaptive cruise control (ACC), blind spot alert, autonomous driving, predictive maintenance, intelligent traffic management, and surge in demand for convenient features attract automotive manufacturers toward AI.

The automotive artificial intelligence market growth is driven by surge in demand for autonomous vehicles, growth in high-speed internet & 5G technology, and rise in demand for enhanced user experience & convenience features. However, factors such



as a rise in security and privacy concerns and a stringent regulatory landscape are anticipated t%li%hinder the market growth rate. Furthermore, the increase in demand for premium vehicles and growth in connected vehicle technology are forecasted t%li%provide lucrative growth market growth opportunities.

In recent years, autonomous vehicles have gained popularity due t%li%various additional features it offers such as self-driving, automatic parking, and a variety of other features. Autonomous vehicles minimize human efforts and make driving safer and more convenient. Moreover, major global companies such as Nvidia Corporation, Intel Corporation, and Tesla, Inc., have invested heavily in R&D for the development of the technology.

For instance, the Tesla, Inc. autopilot system has features such as keeping the vehicle within a lane while driving, aut%li%changing the lanes whenever required, and self-parking, which is one of the most advanced systems available in the market currently. Moreover, autonomous vehicles are anticipated t%li%reduce human intervention and are of vital importance in industries that have a shortage of manpower, especially in the transportation and logistics sector. This, in turn, is expected t%li%drive the growth of the automotive artificial intelligence market.

Autonomous vehicles have made vehicle driving for consumers safe and convenient. However, there are certain threats that are faced by the manufacturers that are related t%li%security and privacy concerns such as safety of personal data, cyber-attacks, and data breaches.

For instance, on May 12, 2023, Toyota Motor Corporation announced that due t%li%a human error, the vehicle data of 2.15 million customers in Japan, or approximately the entire customer base that signed up for its primary cloud service platforms since 2012, had been publicly available. The data included vehicle location as well as identification numbers of vehicle devices. These types of instances of intruding on a customer's privacy are some of the major restraints in the market.

Furthermore, the demand for premium luxury vehicles is driven by a rise in global standards of living and increase in disposable income among people. It is evident that the premium automobile market has seen an increase in sales recently, and as the majority of premium cars on the road now are equipped with artificial intelligence technology, there is an enormous amount of opportunity for expansion in artificial intelligence in the automotive market. The largest manufacturers of luxury automobiles include General Motors, BMW, Honda Motor Co., Ltd., Tesla, Inc., and others are



continuously focusing on development of the technology t%li%enhance AI features in their products.

The automotive artificial intelligence market is segmented on the basis of component, technology, application, and region. On the basis of component, the market is divided int%li%hardware, software, and services. On the basis of technology, the market is classified int%li%machine learning & deep learning, computer vision, natural language processing, and others. By application, the global market is segregated int%li%semi-autonomous and autonomous. On the basis of the region, the market has been analyzed across North America, Europe, Asia-Pacific, and Latin America and Middle East and Africa.

The key companies profiled in the report include Nvidia Corporation, Alphabet Inc., Intel Corporation, IBM, Microsoft Corporation, BMW AG, Uber Technologies, Inc., Tesla, Inc., Toyota Motor Corporation, AB Volvo

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the automotive artificial intelligence market analysis from 2022 t%li%2032 t%li%identify the prevailing automotive artificial intelligence market opportunities.

The market research is offered along with information related t%li%key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers t%li%enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the automotive artificial intelligence market segmentation assists t%li%determine the prevailing market opportunities.

Major countries in each region are mapped according t%li%their revenue contribution t%li%the global market.

Market player positioning facilitates benchmarking and provides a clear



understanding of the present position of the market players.

The report includes the analysis of the regional as well as global automotive artificial intelligence market trends, key players, market segments, application areas, and market growth strategies.

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G%li%T%li%Market Strategy

Additional company profiles with specific t%li%client's interest			
Additional country or region analysis- market size and forecast			
SWOT Analysis			
Key Market Segments			
By Component			
Hardware			
Software			
Services			
By Technology			
Machine Learning and Deep Learning			
Computer Vision			
Natural Language Processing			
Others			
By Application			
Semi-Autonomous			



By Region

North America
U.S.
Canada
Mexico
Europe
Germany
France
UK
Spain
Rest of Europe
Asia-Pacific
China
India
Japan
South Korea
Rest of Asia-Pacific
Latin America
Brazil
Argentina
 10 Artificial Intelligence Market Dy Component (Hardware Coffware Cominge) Dy Tachicles (Machine



Rest of Latin America

Middle East and Africa
GCC Countries
South Africa
Rest of Middle East And Africa
Key Market Players
Uber Technologies, Inc
Tesla, Inc.
Toyota Motor Corporation
Nvidia Corporation
Alphabet Inc
Intel Corporation
IBM
Microsoft Corporation
BMW AG
AB Volvo



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