

Artificial Intelligence Chip Market by Chip Type (GPU, ASIC, FPGA, CPU, and others), Application (Natural Language Processing (NLP), Robotic, Computer Vision, Network Security, and Others), Technology (System-on-Chip, System-in-Package, Multi-chip Module, and Others), Processing Type (Edge and Cloud), and Industry Vertical (Media & Advertising, BFSI, IT & Telecom, Retail, Healthcare, Automotive & Transportation, and Others): Global Opportunity Analysis and Industry Forecast, 2019–2025

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Abstracts

Artificial intelligence (AI) has been the most progressive technology since its introduction in the 1950s. It is associated with human intelligence with characteristics such as language understanding, reasoning, learning, problem-solving, and others. Manufacturers in the market witness enormous underlying intellectual challenges in the development and revision of such technology. It is positioned as the core of the next-generation software technologies in the market.

Artificial intelligence (AI) chips are specialized silicon chips, which incorporate AI technology and are used for machine learning. AI helps in eliminating or minimizing the risk to human life in many industry verticals. The need for more efficient systems for solving mathematical and computational problems becomes crucial, as the volume of data is increasing. Thus, majority of the key players in the IT industry have focused on developing AI chips and applications.

The factors that drive the growth of the global artificial intelligence chip market include increase in demand for smart homes, development of smart cities, and emergence of quantum computing. However, lack of skilled workforce restrains the market growth. Further, in the near future, increased adoption of AI chips in the developing regions and development of smarter robots are expected to provide lucrative opportunities for the key players operating in the global artificial intelligence chip market.

The global artificial intelligence chip market is segmented based on chip type, application, industry vertical, technology, and region. By chip type, the market is categorized into GPU, ASIC, FPGA, CPU, and others. Based on application, it is divided into natural language processing (NLP), robotic, computer vision, network security, and others. By technology, the market is segmented into system-on-chip, system-in-package, multi-chip module, and others. Based on processing type, it is bifurcated into edge and cloud. The industry verticals considered in the study include media & advertising, BFSI, IT & telecom, retail, healthcare, automotive & transportation, and others. Based on region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key players profiled in the report include Advanced Micro Devices (AMD), Google, Inc., Intel Corporation, NVIDIA, Baidu, Graphcore, Qualcomm, Adapteva, UC-Davis, Mythic, and others.

KEY BENEFITS FOR STAKEHOLDERS

This study comprises analytical depiction of the global artificial intelligence chip market along with the current trends and future estimations to depict the imminent investment pockets.

The overall market potential is determined to understand the profitable trends to gain a stronger coverage in the market.

The report presents information related to key drivers, restraints, and opportunities with a detailed impact analysis.

The current market is quantitatively analyzed from 2018 to 2025 to highlight the financial competency of the AI chip market.

Porter's five forces analysis illustrates the potency of the buyers and suppliers.

KEY MARKET SEGMENTS

BY CHIP TYPE

GPU

ASIC

FPGA

CPU

Others

BY APPLICATION

Natural Language Processing (NLP)

Robotic

Computer Vision

Network Security

Others

BY TECHNOLOGY

System-on-Chip (SoC)

System-in-Package (SIP)

Multi-chip Module

Others

BY PROCESSING TYPE

Edge

Cloud

BY INDUSTRY VERTICAL

Media & Advertising

BFSI

IT & Telecom

Retail

Healthcare

Automotive & Transportation

Others

BY REGION

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY MARKET PLAYERS PROFILED

Advanced Micro Devices (AMD)

Google, Inc.

Intel Corporation

NVIDIA

Baidu

Graphcore

Qualcomm

Adapteva

UC-Davis

Mythic

Others

Contents

CHAPTER 1: INTRODUCTION

- 1.1. REPORT DESCRIPTION
- 1.2. KEY BENEFITS FOR STAKEHOLDERS
- 1.3. KEY MARKET SEGMENTS
- 1.4. RESEARCH METHODOLOGY
 - 1.4.1. Primary research
 - 1.4.2. Secondary research
 - 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. INDUSTRY ROADMAP
- 2.2. CXO PERSPECTIVE

CHAPTER 3: MARKET OVERVIEW

- 3.1. MARKET DEFINITION AND SCOPE
- 3.2. KEY FINDINGS
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
 - 3.2.3. Top winning strategies
- 3.3. PORTER'S FIVE FORCES ANALYSIS
- 3.4. AI CHIP MARKET – VALUE CHAIN ANALYSIS
- 3.5. MARKET SHARE ANALYSIS, 2018
 - 3.5.1. AI Chip Suppliers, by Vertical
 - 3.5.1.1. Media & Advertising
 - 3.5.1.2. BFSI
 - 3.5.1.3. IT & Telecom
 - 3.5.1.4. Retail
 - 3.5.1.5. Healthcare
 - 3.5.1.6. Automotive
 - 3.5.2. AI Chip Supplier Market Share Analysis, by Verticals
 - 3.5.2.1. IT & Telecom
 - 3.5.2.2. BFSI
 - 3.5.2.3. Media & Advertising
 - 3.5.2.4. Healthcare

- 3.5.2.5. Automotive
- 3.5.2.6. Retail
- 3.5.3. AI Chip Customers, by Vertical
 - 3.5.3.1. Media & Advertising
 - 3.5.3.2. BFSI
 - 3.5.3.3. IT & Telecom
 - 3.5.3.4. Retail
 - 3.5.3.5. Healthcare
 - 3.5.3.6. Automotive
- 3.5.4. Market share and AI chip spend for top customers
- 3.6. MARKET DYNAMICS
 - 3.6.1. Drivers
 - 3.6.1.1. Increase in demand for smart homes & smart cities
 - 3.6.1.2. Rise in investments in AI startups
 - 3.6.1.3. Emergence of quantum computing
 - 3.6.2. Restraint
 - 3.6.2.1. Dearth of skilled workforce
 - 3.6.3. Opportunities
 - 3.6.3.1. Increased adoption of AI chips in the developing regions
 - 3.6.3.2. Development of smarter robots
- 3.7. RACE ANALYSIS
- 3.8. PATENT ANALYSIS

CHAPTER 4: ARTIFICIAL INTELLIGENCE CHIP MARKET, BY CHIP TYPE

- 4.1. OVERVIEW
- 4.2. GPU
 - 4.2.1. Key market trends, growth factors and opportunities
 - 4.2.2. Market size and forecast, by region
 - 4.2.3. Market analysis by country
- 4.3. ASIC
 - 4.3.1. Key market trends, growth factors, and opportunities
 - 4.3.2. Market size and forecast, by region
 - 4.3.3. Market analysis by country
- 4.4. FPGA
 - 4.4.1. Key market trends, growth factors, and opportunities
 - 4.4.2. Market size and forecast, by region
 - 4.4.3. Market analysis by country
- 4.5. CPU

- 4.5.1. Key market trends, growth factors, and opportunities
- 4.5.2. Market size and forecast, by region
- 4.5.3. Market analysis by country
- 4.6. OTHERS (NPU & HYBRID CHIP)
 - 4.6.1. Key market trends, growth factors, and opportunities
 - 4.6.2. Market size and forecast, by region
 - 4.6.3. Market analysis by country

CHAPTER 5: ARTIFICIAL INTELLIGENCE CHIP MARKET, BY APPLICATION

- 5.1. OVERVIEW
- 5.2. NATURAL LANGUAGE PROCESSING (NLP)
 - 5.2.1. Key market trends, growth factors, and opportunities
 - 5.2.2. Market size and forecast, by region
 - 5.2.3. Market analysis by country
- 5.3. ROBOTIC PROCESS AUTOMATION
 - 5.3.1. Key market trends, growth factors, and opportunities
 - 5.3.2. Market size and forecast, by region
 - 5.3.3. Market analysis by country
- 5.4. COMPUTER VISION
 - 5.4.1. Key market trends, growth factors, and opportunities
 - 5.4.2. Market size and forecast, by region
 - 5.4.3. Market analysis by country
- 5.5. NETWORK SECURITY
 - 5.5.1. Key market trends, growth factors, and opportunities
 - 5.5.2. Market size and forecast, by region
 - 5.5.3. Market analysis by country
- 5.6. OTHERS
 - 5.6.1. Key market trends, growth factors, and opportunities
 - 5.6.2. Market size and forecast, by region
 - 5.6.3. Market analysis by country

CHAPTER 6: ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY

- 6.1. OVERVIEW
- 6.2. SYSTEM-ON-CHIP (SOC)
 - 6.2.1. Key market trends, growth factors and opportunities
 - 6.2.2. Market size and forecast, by region
 - 6.2.3. Market analysis by country

6.3. SYSTEM-IN-PACKAGE (SIP)

- 6.3.1. Key market trends, growth factors, and opportunities
- 6.3.2. Market size and forecast, by region
- 6.3.3. Market analysis by country

6.4. MULTI-CHIP MODULE

- 6.4.1. Key market trends, growth factors, and opportunities
- 6.4.2. Market size and forecast, by region
- 6.4.3. Market analysis by country

6.5. OTHERS (PACKAGE IN PACKAGE, TSV)

- 6.5.1. Key market trends, growth factors, and opportunities
- 6.5.2. Market size and forecast, by region
- 6.5.3. Market analysis by country

CHAPTER 7: ARTIFICIAL INTELLIGENCE CHIP MARKET, BY PROCESSING TYPE

7.1. OVERVIEW

7.2. EDGE

- 7.2.1. Key market trends, growth factors and opportunities
- 7.2.2. Market size and forecast, by region
- 7.2.3. Market analysis by country

7.3. CLOUD

- 7.3.1. Key market trends, growth factors, and opportunities
- 7.3.2. Market size and forecast, by region
- 7.3.3. Market analysis by country

CHAPTER 8: ARTIFICIAL INTELLIGENCE CHIP MARKET, BY INDUSTRY VERTICAL

8.1. OVERVIEW

8.2. MEDIA & ADVERTISING

- 8.2.1. Content Management
- 8.2.2. User Data Management
- 8.2.3. Real time analytics
- 8.2.4. Planning and scheduling
- 8.2.5. Key market trends, growth factors and opportunities
- 8.2.6. Market size and forecast, by region
- 8.2.7. Market analysis by country
- 8.2.8. Market size and forecast, by processing type

8.3. BFSI

- 8.3.1. Virtual Personal Assistant
- 8.3.2. Risk Management
- 8.3.3. Fraud Detection
- 8.3.4. Key market trends, growth factors and opportunities
- 8.3.5. Market size and forecast, by region
- 8.3.6. Market analysis by country
- 8.3.7. Market size and forecast, by processing type

8.4. IT & TELECOM

- 8.4.1. Churn Prediction
- 8.4.2. Network optimization
- 8.4.3. Virtual Assistance
- 8.4.4. Preventive Maintenance
- 8.4.5. Key market trends, growth factors and opportunities
- 8.4.6. Market size and forecast, by region
- 8.4.7. Market analysis by country
- 8.4.8. Market size and forecast, by processing type

8.5. RETAIL

- 8.5.1. Virtual Assistance
- 8.5.2. Demand planning and scheduling
- 8.5.3. Payment service management
- 8.5.4. Loyalty Management
- 8.5.5. Key market trends, growth factors and opportunities
- 8.5.6. Market size and forecast, by region
- 8.5.7. Market analysis by country
- 8.5.8. Market size and forecast, by processing type

8.6. HEALTHCARE

- 8.6.1. Risk Analysis
- 8.6.2. Imaging and diagnostics
- 8.6.3. Drug Discovery
- 8.6.4. Wearables
- 8.6.5. Key market trends, growth factors and opportunities
- 8.6.6. Market size and forecast, by region
- 8.6.7. Market analysis by country
- 8.6.8. Market size and forecast, by processing type

8.7. AUTOMOTIVE

- 8.7.1. Image Recognition
- 8.7.2. Control Devices
- 8.7.3. Key market trends, growth factors and opportunities
- 8.7.4. Market size and forecast, by region

8.7.5. Market analysis by country

8.7.6. Market size and forecast, by processing type

8.8. OTHERS

8.8.1. Key market trends, growth factors and opportunities

8.8.2. Market size and forecast, by region

8.8.3. Market analysis by country

8.8.4. Market size and forecast, by processing type

CHAPTER 9: ARTIFICIAL INTELLIGENCE CHIP MARKET, BY REGION

9.1. OVERVIEW

9.2. NORTH AMERICA

9.2.1. Key market trends, growth factors, and opportunities

9.2.2. Market size and forecast, by chip type

9.2.3. Market size and forecast, by application

9.2.4. Market size and forecast, by technology

9.2.5. Market size and forecast, by processing type

9.2.6. Market size and forecast, by industry vertical

9.2.7. Market analysis by country

9.2.7.1. U.S.

9.2.7.1.1. Market size and forecast, by chip type

9.2.7.1.2. Market size and forecast, by application

9.2.7.1.3. Market size and forecast, by technology

9.2.7.1.4. Market size and forecast, by processing type

9.2.7.1.5. Market size and forecast, by industry vertical

9.2.7.2. Canada

9.2.7.2.1. Market size and forecast, by chip type

9.2.7.2.2. Market size and forecast, by application

9.2.7.2.3. Market size and forecast, by technology

9.2.7.2.4. Market size and forecast, by processing type

9.2.7.2.5. Market size and forecast, by industry vertical

9.2.7.3. Mexico

9.2.7.3.1. Market size and forecast, by chip type

9.2.7.3.2. Market size and forecast, by application

9.2.7.3.3. Market size and forecast, by technology

9.2.7.3.4. Market size and forecast, by processing type

9.2.7.3.5. Market size and forecast, by industry vertical

9.3. EUROPE

9.3.1. Key market trends, growth factors, and opportunities

9.3.2. Market size and forecast, by chip type

9.3.3. Market size and forecast, by application

9.3.4. Market size and forecast, by technology

9.3.5. Market size and forecast, by processing type

9.3.6. Market size and forecast, by industry vertical

9.3.7. Market analysis by country

9.3.7.1. U.K.

9.3.7.1.1. Market size and forecast, by chip type

9.3.7.1.2. Market size and forecast, by application

9.3.7.1.3. Market size and forecast, by technology

9.3.7.1.4. Market size and forecast, by processing type

9.3.7.1.5. Market size and forecast, by industry vertical

9.3.7.2. Germany

9.3.7.2.1. Market size and forecast, by chip type

9.3.7.2.2. Market size and forecast, by application

9.3.7.2.3. Market size and forecast, by technology

9.3.7.2.4. Market size and forecast, by processing type

9.3.7.2.5. Market size and forecast, by industry vertical

9.3.7.3. France

9.3.7.3.1. Market size and forecast, by chip type

9.3.7.3.2. Market size and forecast, by application

9.3.7.3.3. Market size and forecast, by technology

9.3.7.3.4. Market size and forecast, by processing type

9.3.7.3.5. Market size and forecast, by industry vertical

9.3.7.4. Russia

9.3.7.4.1. Market size and forecast, by chip type

9.3.7.4.2. Market size and forecast, by application

9.3.7.4.3. Market size and forecast, by technology

9.3.7.4.4. Market size and forecast, by processing type

9.3.7.4.5. Market size and forecast, by industry vertical

9.3.7.5. Rest of Europe

9.3.7.5.1. Market size and forecast, by chip type

9.3.7.5.2. Market size and forecast, by application

9.3.7.5.3. Market size and forecast, by technology

9.3.7.5.4. Market size and forecast, by processing type

9.3.7.5.5. Market size and forecast, by industry vertical

9.4. ASIA-PACIFIC

9.4.1. Key market trends, growth factors, and opportunities

9.4.2. Market size and forecast, by chip type

9.4.3. Market size and forecast, by application

9.4.4. Market size and forecast, by technology

9.4.5. Market size and forecast, by processing type

9.4.6. Market size and forecast, by industry vertical

9.4.7. Market analysis by country

9.4.7.1. China

9.4.7.1.1. Market size and forecast, by chip type

9.4.7.1.2. Market size and forecast, by application

9.4.7.1.3. Market size and forecast, by technology

9.4.7.1.4. Market size and forecast, by processing type

9.4.7.1.5. Market size and forecast, by industry vertical

9.4.7.2. Japan

9.4.7.2.1. Market size and forecast, by chip type

9.4.7.2.2. Market size and forecast, by application

9.4.7.2.3. Market size and forecast, by technology

9.4.7.2.4. Market size and forecast, by processing type

9.4.7.2.5. Market size and forecast, by industry vertical

9.4.7.3. India

9.4.7.3.1. Market size and forecast, by chip type

9.4.7.3.2. Market size and forecast, by application

9.4.7.3.3. Market size and forecast, by technology

9.4.7.3.4. Market size and forecast, by processing type

9.4.7.3.5. Market size and forecast, by industry vertical

9.4.7.4. Australia

9.4.7.4.1. Market size and forecast, by chip type

9.4.7.4.2. Market size and forecast, by application

9.4.7.4.3. Market size and forecast, by technology

9.4.7.4.4. Market size and forecast, by processing type

9.4.7.4.5. Market size and forecast, by industry vertical

9.4.7.5. Rest of Asia-Pacific

9.4.7.5.1. Market size and forecast, by chip type

9.4.7.5.2. Market size and forecast, by application

9.4.7.5.3. Market size and forecast, by technology

9.4.7.5.4. Market size and forecast, by processing type

9.4.7.5.5. Market size and forecast, by industry vertical

9.5. LAMEA

9.5.1. Key market trends, growth factors, and opportunities

9.5.2. Market size and forecast, by chip type

9.5.3. Market size and forecast, by application

- 9.5.4. Market size and forecast, by technology
- 9.5.5. Market size and forecast, by processing type
- 9.5.6. Market size and forecast, by industry vertical
- 9.5.7. Market analysis by country
 - 9.5.7.1. Latin America
 - 9.5.7.1.1. Market size and forecast, by chip type
 - 9.5.7.1.2. Market size and forecast, by application
 - 9.5.7.1.3. Market size and forecast, by technology
 - 9.5.7.1.4. Market size and forecast, by processing type
 - 9.5.7.1.5. Market size and forecast, by industry vertical
 - 9.5.7.2. Middle East
 - 9.5.7.2.1. Market size and forecast, by chip type
 - 9.5.7.2.2. Market size and forecast, by application
 - 9.5.7.2.3. Market size and forecast, by technology
 - 9.5.7.2.4. Market size and forecast, by processing type
 - 9.5.7.2.5. Market size and forecast, by industry vertical
 - 9.5.7.3. Africa
 - 9.5.7.3.1. Market size and forecast, by chip type
 - 9.5.7.3.2. Market size and forecast, by application
 - 9.5.7.3.3. Market size and forecast, by technology
 - 9.5.7.3.4. Market size and forecast, by processing type
 - 9.5.7.3.5. Market size and forecast, by industry vertical

CHAPTER 10: COMPANY PROFILES

- 10.1. ADAPTEVA, INC.
 - 10.1.1. Company overview
 - 10.1.2. Company snapshot
 - 10.1.3. Product portfolio
 - 10.1.4. Key strategic moves and developments
 - 10.1.5. Technological insights and key architecture
- 10.2. ADVANCED MICRO DEVICES, INC.
 - 10.2.1. Company overview
 - 10.2.2. Company snapshot
 - 10.2.3. Operating business segments
 - 10.2.4. Product portfolio
 - 10.2.5. Business performance
 - 10.2.6. Key strategic moves and developments
 - 10.2.7. Technological insights and key architecture

10.3. ALPHABET INC. (GOOGLE INC.)

- 10.3.1. Company overview
- 10.3.2. Company snapshot
- 10.3.3. Operating business segments
- 10.3.4. Product portfolio
- 10.3.5. Business performance
- 10.3.6. Key strategic moves and developments
- 10.3.7. Technological insights and key architecture

10.4. AMAZON.COM, INC.

- 10.4.1. Company overview
- 10.4.2. Company snapshot
- 10.4.3. Operating business segments
- 10.4.4. Product portfolio
- 10.4.5. Business performance
- 10.4.6. Key strategic moves and developments
- 10.4.7. Technological insights and key architecture

10.5. ANALOG DEVICES, INC.

- 10.5.1. Company overview
- 10.5.2. Company snapshot
- 10.5.3. Operating business segments
- 10.5.4. Product portfolio
- 10.5.5. Business performance
- 10.5.6. Technological insights and key architecture

10.6. APPLIED MATERIALS, INC.

- 10.6.1. Company overview
- 10.6.2. Company snapshot
- 10.6.3. Operating business segments
- 10.6.4. Product portfolio
- 10.6.5. Business performance
- 10.6.6. Key strategic moves and developments
- 10.6.7. Technological insights and key architecture

10.7. BAIDU, INC.

- 10.7.1. Company overview
- 10.7.2. Company snapshot
- 10.7.3. Operating business segments
- 10.7.4. Product portfolio
- 10.7.5. Business performance
- 10.7.6. Key strategic moves and developments
- 10.7.7. Technological insights and key architecture

10.8. BITMAIN TECHNOLOGIES LTD.

- 10.8.1. Company overview
- 10.8.2. Company snapshot
- 10.8.3. Product portfolio
- 10.8.4. Key strategic moves and developments
- 10.8.5. Technological insights and key architecture

10.9. BROADCOM LIMITED

- 10.9.1. Company overview
- 10.9.2. Company snapshot
- 10.9.3. Operating business segments
- 10.9.4. Product portfolio
- 10.9.5. Business performance
- 10.9.6. Key strategic moves and developments
- 10.9.7. Technological insights and key architecture

10.10. CAMBRICON TECHNOLOGIES CORPORATION LIMITED

- 10.10.1. Company overview
- 10.10.2. Company snapshot
- 10.10.3. Operating business segments
- 10.10.6. Technological insights and key architecture

10.11. GRAPHCORE LTD.

- 10.11.1. Company overview
- 10.11.2. Company snapshot
- 10.11.3. Operating business segments
- 10.11.4. Product portfolio
- 10.11.5. Key strategic moves and developments
- 10.11.6. Technological insights and key architecture

10.12. GROQ

- 10.12.1. Company overview
- 10.12.2. Company snapshot
- 10.12.3. Product portfolio
- 10.12.4. Technological insights and key architecture

10.13. GYRFALCON TECHNOLOGY INC.

- 10.13.1. Company overview
- 10.13.2. Company snapshot
- 10.13.3. Operating business segments
- 10.13.4. Product portfolio
- 10.13.5. Technological insights and key architecture

10.14. HORIZON ROBOTICS, INC.

- 10.14.1. Company overview

- 10.14.2. Company snapshot
- 10.14.3. Product portfolio
- 10.14.4. Technological insights and key architecture
- 10.15. HUAWEI TECHNOLOGIES CO. LTD.
 - 10.15.1. Company overview
 - 10.15.2. Company snapshot
 - 10.15.3. Operating business segments
 - 10.15.4. Product portfolio
 - 10.15.5. Business performance
 - 10.15.6. Key strategic moves and developments
 - 10.15.7. Technological insights and key architecture
- 10.16. INTEL CORPORATION
 - 10.16.1. Company overview
 - 10.16.2. Company snapshot
 - 10.16.3. Operating business segments
 - 10.16.4. Product portfolio
 - 10.16.5. Business performance
 - 10.16.6. Key strategic moves and developments
 - 10.16.7. Technological insights and key architecture
- 10.17. INTERNATIONAL BUSINESS MANAGEMENT CORPORATION
 - 10.17.1. Company overview
 - 10.17.2. Company snapshot
 - 10.17.3. Operating business segments
 - 10.17.4. Product portfolio
 - 10.17.5. Business performance
 - 10.17.6. Key strategic moves and developments
 - 10.17.7. Technological insights and key architecture
- 10.18. KNUEDGE, INC.
 - 10.18.1. Company overview
 - 10.18.2. Company snapshot
 - 10.18.3. Product portfolio
 - 10.18.4. Technological insights and key architecture
- 10.19. KRTKL INC.
 - 10.19.1. Company overview
 - 10.19.2. Company snapshot
 - 10.19.3. Product portfolio
 - 10.19.4. Technological insights and key architecture
- 10.20. MEDIATEK, INC.
 - 10.20.1. Company overview

- 10.20.2. Company snapshot
- 10.20.3. Operating business segments
- 10.20.4. Product portfolio
- 10.20.5. Business performance
- 10.20.6. Key strategic moves and developments
- 10.20.7. Technological insights and key architecture
- 10.21. MICRON TECHNOLOGY, INC.
 - 10.21.1. Company overview
 - 10.21.2. Company snapshot
 - 10.21.3. Operating business segments
 - 10.21.4. Product portfolio
 - 10.21.5. Business performance
 - 10.21.6. Technological insights and key architecture
- 10.22. MICROSEMI CORPORATION
 - 10.22.1. Company overview
 - 10.22.2. Company snapshot
 - 10.22.3. Operating business segments
 - 10.22.4. Product portfolio
 - 10.22.5. Business performance
 - 10.22.6. Key strategic moves and developments
 - 10.22.7. Technological insights and key architecture
- 10.23. MYTHIC, INC.
 - 10.23.1. Company overview
 - 10.23.2. Company snapshot
 - 10.23.3. Product portfolio
 - 10.23.4. Key strategic moves and developments
 - 10.23.5. Technological insights and key architecture
- 10.24. NEC CORPORATION
 - 10.24.1. Company overview
 - 10.24.2. Company snapshot
 - 10.24.3. Operating business segments
 - 10.24.4. Product portfolio
 - 10.24.5. Business performance
 - 10.24.6. Key strategic moves and developments
 - 10.24.7. Technological insights and key architecture
- 10.25. KOREA ELECTRONIC CERTIFICATION AUTHORITY, INC. (AI BRAIN, INC.)
 - 10.25.1. Company overview
 - 10.25.2. Company snapshot
 - 10.25.3. Operating business segments

- 10.25.4. Product portfolio
- 10.25.5. Technological insights and key architecture
- 10.26. NVIDIA CORPORATION
 - 10.26.1. Company overview
 - 10.26.2. Company snapshot
 - 10.26.3. Operating business segments
 - 10.26.4. Product portfolio
 - 10.26.5. Business performance
 - 10.26.6. Key strategic moves and developments
 - 10.26.7. Technological insights and key architecture
- 10.27. NXP SEMICONDUCTORS N.V.
 - 10.27.1. Company overview
 - 10.27.2. Company snapshot
 - 10.27.3. Operating business segments
 - 10.27.4. Product portfolio
 - 10.27.5. Business performance
 - 10.27.6. Key strategic moves and developments
 - 10.27.7. Technological insights and key architecture
- 10.28. QUALCOMM INCORPORATED
 - 10.28.1. Company overview
 - 10.28.2. Company snapshot
 - 10.28.3. Operating business segments
 - 10.28.4. Product portfolio
 - 10.28.5. Business performance
 - 10.28.6. Key strategic moves and developments
 - 10.28.7. Technological insights and key architecture
- 10.29. SAMSUNG ELECTRONICS CO. LTD.
 - 10.29.1. Company overview
 - 10.29.2. Company snapshot
 - 10.29.3. Operating business segments
 - 10.29.4. Product portfolio
 - 10.29.5. Business performance
 - 10.29.6. Key strategic moves and developments
 - 10.29.7. Technological insights and key architecture
- 10.30. SHANGHAI THINK-FORCE ELECTRONIC TECHNOLOGY CO. LTD.
 - 10.30.1. Company overview
 - 10.30.2. Company snapshot
 - 10.30.3. Product portfolio
 - 10.30.4. Technological insights and key architecture

10.31. SK HYNIX, INC.

- 10.31.1. Company overview
- 10.31.2. Company snapshot
- 10.31.3. Operating business segments
- 10.31.4. Product portfolio
- 10.31.5. Business performance
- 10.31.6. Technological insights and key architecture

10.32. SOFTBANK GROUP CORP. (ARM HOLDINGS PLC)

- 10.32.1. Company overview
- 10.32.2. Company snapshot
- 10.32.3. Operating business segments
- 10.32.4. Product portfolio
- 10.32.5. Business performance
- 10.32.6. Key strategic moves and developments
- 10.32.7. Technological insights and key architecture

10.33. TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LIMITED

- 10.33.1. Company overview
- 10.33.2. Company snapshot
- 10.33.3. Operating business segments
- 10.33.4. Product portfolio
- 10.33.5. Business performance
- 10.33.6. Technological insights and key architecture

10.34. TENSTORRENT INC.

- 10.34.1. Company overview
- 10.34.2. Company snapshot
- 10.34.3. Product portfolio
- 10.34.4. Technological insights and key architecture

10.35. TEXAS INSTRUMENTS INCORPORATED

- 10.35.1. Company overview
- 10.35.2. Company snapshot
- 10.35.3. Operating business segments
- 10.35.4. Product portfolio
- 10.35.5. Business performance
- 10.35.6. Technological insights and key architecture

10.36. TOSHIBA CORPORATION

- 10.36.1. Company overview
- 10.36.2. Company snapshot
- 10.36.3. Operating business segments
- 10.36.4. Product portfolio

10.36.5. Business performance

10.36.6. Key strategic moves and developments

10.36.7. Technological insights and key architecture

10.37. UNIVERSITY OF CALIFORNIA SYSTEM (UNIVERSITY OF CALIFORNIA, DAVIS)

10.37.1. Company overview

10.37.2. Company snapshot

10.37.3. Operating business segments

10.37.4. Product portfolio

10.37.5. Business performance

10.37.6. Technological insights and key architecture

10.38. WAVE COMPUTING, INC.

10.38.1. Company overview

10.38.2. Company snapshot

10.38.3. Product portfolio

10.38.4. Key strategic moves and developments

10.38.5. Technological insights and key architecture

10.39. XILINX, INC.

10.39.1. Company overview

10.39.2. Company snapshot

10.39.3. Operating business segments

10.39.4. Product portfolio

10.39.5. Business performance

10.39.6. Technological insights and key architecture

List Of Tables

LIST OF TABLES

TABLE 01. AI CHIP TOP CUSTOMER SPEND, 2018
TABLE 02. GLOBAL ARTIFICIAL INTELLIGENCE CHIP MARKET, BY CHIP TYPE, 2017-2025(\$MILLION)
TABLE 03. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR GPU, BY REGION 2017-2025 (\$MILLION)
TABLE 04. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR ASIC, BY REGION 2017-2025 (\$MILLION)
TABLE 05. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR FPGA, BY REGION 2017-2025 (\$MILLION)
TABLE 06. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR CPU, BY REGION 2017-2025 (\$MILLION)
TABLE 07. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR OTHERS, BY REGION 2017-2025 (\$MILLION)
TABLE 08. GLOBAL ARTIFICIAL INTELLIGENCE CHIP MARKET, BY APPLICATION, 2017-2025(\$MILLION)
TABLE 09. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR NLP, BY REGION 2017-2025 (\$MILLION)
TABLE 10. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR ROBOTIC, BY REGION 2017-2025 (\$MILLION)
TABLE 11. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR COMPUTER VISION, BY REGION 2017-2025 (\$MILLION)
TABLE 12. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR NETWORK SECURITY, BY REGION 2017-2025 (\$MILLION)
TABLE 13. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR OTHERS, BY REGION 2017-2025 (\$MILLION)
TABLE 14. GLOBAL ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY, 2017-2025(\$MILLION)
TABLE 15. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR SYSTEM-ON-CHIP (SOC), BY REGION 2017-2025 (\$MILLION)
TABLE 16. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR SYSTEM-IN-PACKAGE (SIP), BY REGION 2017-2025 (\$MILLION)
TABLE 17. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR MULTI-CHIP MODULE, BY REGION 2017-2025 (\$MILLION)
TABLE 18. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR OTHERS, BY REGION 2017-2025 (\$MILLION)

TABLE 19. GLOBAL ARTIFICIAL INTELLIGENCE CHIP MARKET, BY PROCESSING TYPE, 2017-2025(\$MILLION)

TABLE 20. ARTIFICIAL INTELLIGENCE CHIP MARKET REVENUE FOR SYSTEM-ON-CHIP

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