

Solution Brief

Powering AI-Driven Analytics, Insights, and Growth

With Logicalis Production Ready Cloud and Azure Machine Learning.

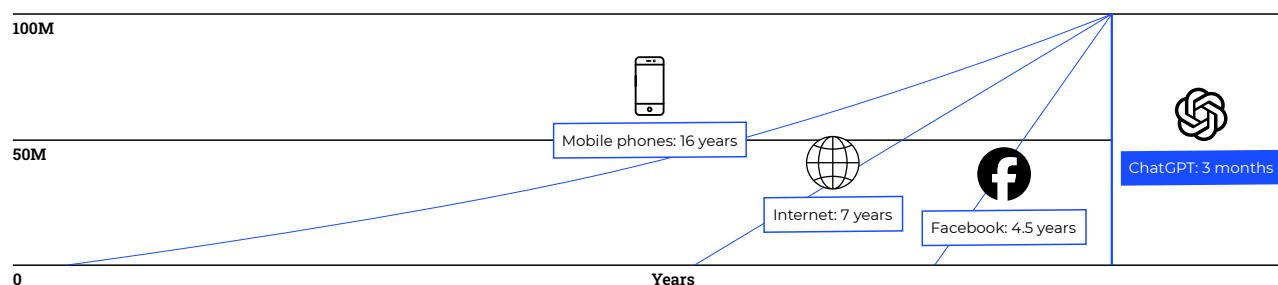




Although AI is still a “young” technology, it is expected to be the most profound, groundbreaking, and rapid technological shift we have seen in decades.

Through ChatGPT, for instance, large language models (LLMs) have penetrated the market more quickly than any technology in history¹:

- It took just two months for the app to reach 100 million monthly users
- In less than one year, ChatGPT had reached 100 million weekly users
- Towards the end of 2023, over two million developers were building on the company’s API
- GPT-4 Turbo², introduced in November 2023, was three times cheaper than previous versions and increased the input size to 128,000 tokens - or around 300 pages of text



www.memug.org/wp-content/uploads/2023/08/MEMUG-M365-Copilot2.pdf

Importantly, AI is not simply a new tool. Many expect it to become the foundation³ for tomorrow’s applications and operating systems.

Although API access to AI helps to democratize the technology, leveraging these public models is not enough to stay ahead. Forward-thinking organizations realize that, in order to truly differentiate their business from the competition, they need to generate insights from their own data.

1. www.theverge.com/2023/11/6/23948386/chatgpt-active-user-count-openai-developer-conference

2. www.theverge.com/2023/11/6/23948426/openai-gpt4-turbo-generative-ai-new-model

3. www.bloomberg.com/opinion/articles/2023-04-19/ai-is-challenging-operating-system-supremacy

Turning AI-Powered Insights into a Competitive Advantage

Every organization has a store of data that can be used to inform decisions and power innovation across the entire business. It is that proprietary, unique data that differentiates organizations from their competitors, and it is that data that can be used to develop next-generation data-driven solutions.

AI-powered predictive analytics has a wide range of use cases across an equally wide range of industries. A few examples include:



Education

- Personalized Learning Paths
- Automated Grading Systems
- Student Performance Predictions
- Curriculum Optimization
- Virtual Learning Assistants



Supply Chain & Logistics

- Route Optimization
- Inventory Forecasting
- Warehouse Automation
- Demand Planning
- Supplier Risk Assessment



Healthcare

- Patient Data Analysis
- Drug Development Acceleration
- Medical Image Diagnosis
- Treatment Personalization
- Electronic Health Record Management



Finance

- Real-time Market Analytics
- Fraud Detection
- Credit Scoring
- Risk Management
- Algorithmic Trading



Retail

- Customer Behavior Analysis
- Inventory Management
- Personalized Product Recommendations
- Automated Checkout Systems
- Dynamic Pricing



Manufacturing & Industrial

- Production Forecasting
- Equipment Failure Prediction
- Supply Chain Optimization
- Quality Assurance Automation
- Warehouse Robotics



Hospitality

- Customer Experience Personalization
- Inventory Management
- Energy Management
- Staff Scheduling Optimization
- Food Waste Reduction



Travel

- Dynamic Pricing of Services
- Travel Demand Forecasting
- Personalized Itinerary Creation
- Real-time Customer Service
- Flight and Hotel Booking Optimization



Real Estate

- Property Value Prediction
- Automated Property Listings
- Virtual Property Tours
- Lease Management Automation
- Smart Home Integration



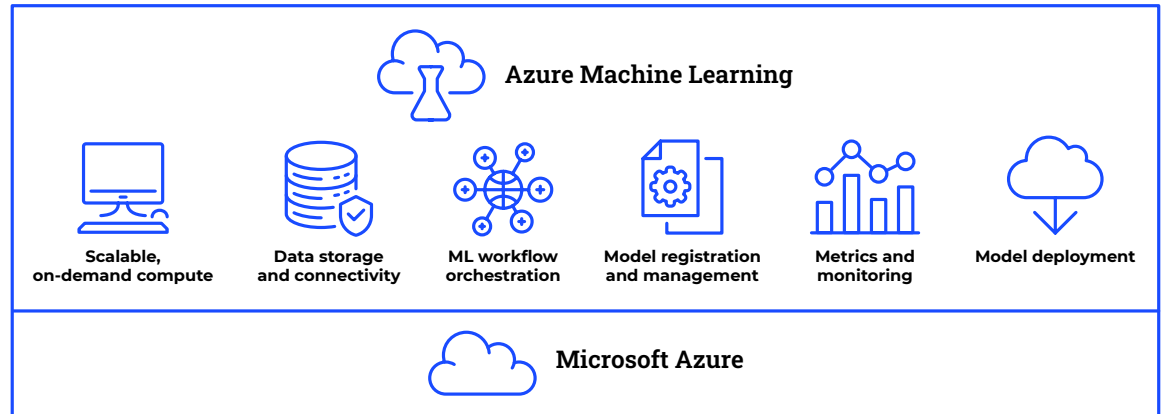
Marketing & Advertising

- Consumer Sentiment Analysis
- Targeted Ad Placement
- Campaign Performance Analysis
- SEO Content Optimization
- Social Media Trend Forecasting

Because AI is still in its infancy, taking full advantage of the technology requires the adoption of technologies that are still emerging – a task made all the more difficult when most organizations are already facing other obstacles, such as budget constraints, skills shortages, and legacy IT infrastructure. Fortunately, there are tools that address these challenges and simplify the process of building and launching AI projects.

Launch, Innovate, and Scale with Azure Machine Learning

Azure Machine Learning is a cloud service for accelerating and managing the machine learning project life cycle. Data scientists, engineers, and machine learning professionals can use it to train, deploy, and optimize models, manage machine learning operations, and more. The offering includes a range of features to help accelerate and automate workflows, integrate models into applications or services, and build advanced machine learning tooling.



www.towardsdatascience.com/azure-machine-learning-service-part-1-an-introduction-739620d1127b

As with any technology or platform, however, taking full advantage of Azure Machine Learning requires specialized expertise and experience. Since most organizations need to focus their IT resources on strategic business initiatives, it is often advisable to partner with IT solution providers who already work with the platform.

Plan, Execute, and Optimize with Logicalis Production Ready Cloud

Logicalis Production Ready Cloud (PRC) is a tried and tested framework that can help you achieve your AI vision in a scalable, secure, and controlled way with the Azure cloud platform. Approved by Microsoft, this design framework is a preconfigured environment, or secured landing zone, that sits within Azure and gives you a set of tools, documentation, and best practices to accelerate your AI adoption journey with confidence. Through Logicalis Managed Azure PRC Services, we help customers strategically plan and execute their cloud-based strategy with a proven methodology that has been refined over years.

Step 1: Align – Readiness & Security Assessment	Step 2: Transform – Platform Implementation & Workload Migration	Step 3: Managed Services & Ongoing Innovation
Develop a cloud strategy roadmap and workload transformation plan with highly accurate cost expectations.	Deployment of a standardized best-practice platform using a proven approach that reduces time to value. Low-risk migration with a new Azure application or existing lift-and-shift focus.	Services to manage cloud performance, optimize cost, and ensure governance and security. Continually modernize and innovate for long-term growth.

Logicalis PRC provides a solid foundation of support and guidance, giving you the confidence and freedom to develop AI projects flexibly and at your own pace.



Take the Next Step in Your AI Journey

As AI adoption accelerates across industries, pressure will increase to accelerate data-driven modernization and transformation. Future-oriented organizations who innovate have the opportunity to differentiate themselves from competitors, develop unique products and services, and stay at the forefront of change.

Logicalis PRC for Azure Machine Learning can help accelerate, simplify, and streamline AI adoption with a streamlined, tested framework and one of the world's most widely used, advanced cloud platforms.

If you are ready to take the next step in your AI journey, schedule a free executive briefing to find out how we can help.

Schedule Free Executive Briefing
logicalis-hub.com/microsoft