Artificial Intelligence

THE NEW IMPERATIVE, A DEFINING TREND OVER THE NEXT 10 YEARS

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Just as 100 years ago electricity transformed industry after industry, AI will now do the same!

Andrew Ng











Al is the ability of a machine to autonomously perceive, understand, decide and react to its environment + its ability to independently enhance its functions and intelligence over time

Bain & Company



Current state of Adoption – All Industries

What is the current state of adoption?

What use cases are being implemented?

How are Companies developing AI?

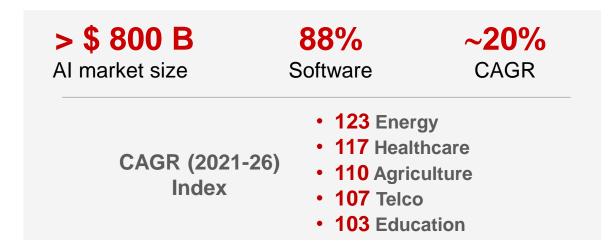




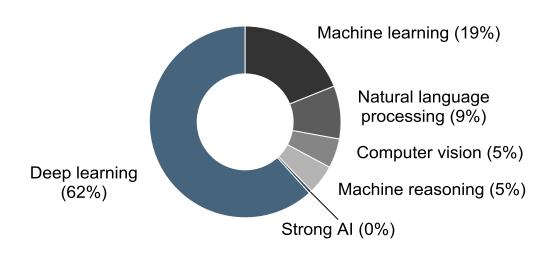
- 60% of respondents have adopted at least one model
- We are still in early innings, with 40% of adopters using AI for less than 10% of their applications

- From customers use cases
 (insights, targeting, service, etc.)
 to operational use cases
 (i.e., workflow automation, pricing models, demand forecasting)
- From cross-industry standard use cases (e.g., IT management, financial planning) to industryspecific (e.g., automated diagnosis in Healthcare; asset utilization and long-range planning in Industrials)
- Cost, ease of integration, and time to market are the top 3 criteria when embracing AI/ML; uncertain ROI and integration difficulties are biggest barriers to scale further
- Enterprises increasingly care about data and control – company data policies are table stakes for data access

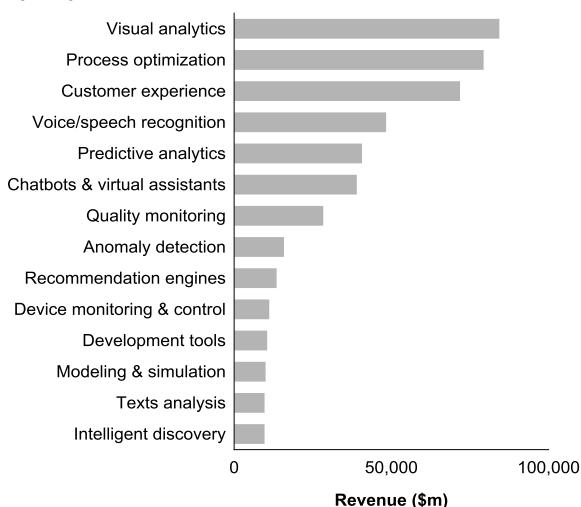
Al Market – Key trends to 2026



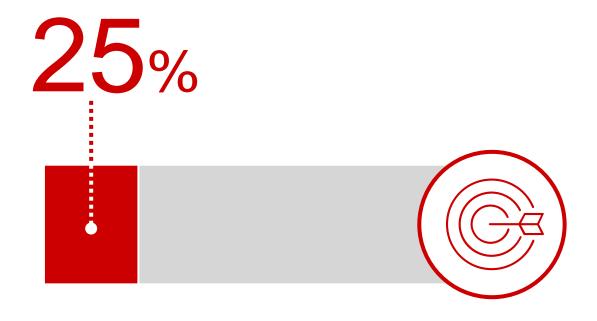
Al software revenue share by technology, world markets: 2026



Cumulative AI software revenue by horizontal, world markets: 2021-26

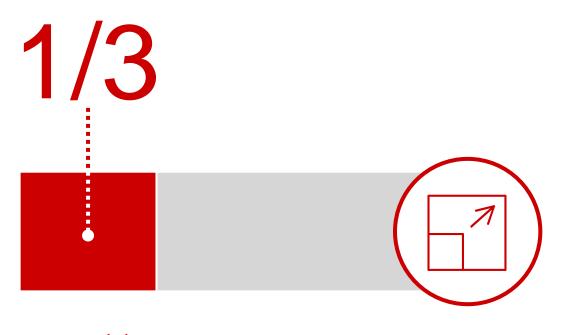


But the reality is ...



Share of AI projects reaching or exceeding their objectives

Forrester



Al-driven initiatives reaching planned scale

Bain 2021 AI/ML Customer Survey



Adoption Barriers

Most ML/Al projects fail for one of these five reasons

Lack of clear objectives

Long term vision/ambition gaps
Lack of clear and measurable objectives
Misalignment within the organization/company

"Quick wins" come too late

Lack of pragmatism

Long/complex projects with a big bang at the end

None or limited measurement framework

Too cumbersome for daily use

Overcomplicated

Adding another layer of complexity within the organization Duplicative of existing tools, not superior to existing UI

Over-reliance on tools

Over-investment into capabilities and technologies before you get started
No human "override rights", lose of front-line judgement

Under-estimate human factors

Lack of leadership support and endorsement Tech & silos over culture Scarsity of talents, unclear definition of required profiles





1

Set the right objectives

2

Decide on build vs. buy vs. partner

3

Results from iterative and agile process, not tools

4

Better data wins over better algorithm 5

Design with the "last mile" adoption in mind 6

Repeatable model with a diverse team a must

Here are the top six of things we learned that do work

Hippocratic oath for data scientists?

As a data scientist, I recognize that my work has material consequences on individuals and their ability to function within society:

01

I would place the individual's privacy over the model's performance.

02

I have a responsibility to make sure data subjects are educated on how data is being used and allow them to rectify incorrect data.

03

I have an ethical imperative to ensure that the data we use for decisions is accurate.

04

I pledge to invest the time to educate others about unintended consequences of this kind of work that may cause social harm.

Thank you!

